HOLSTEIN-FRIESIAN WORLD

EASTERN EDITION

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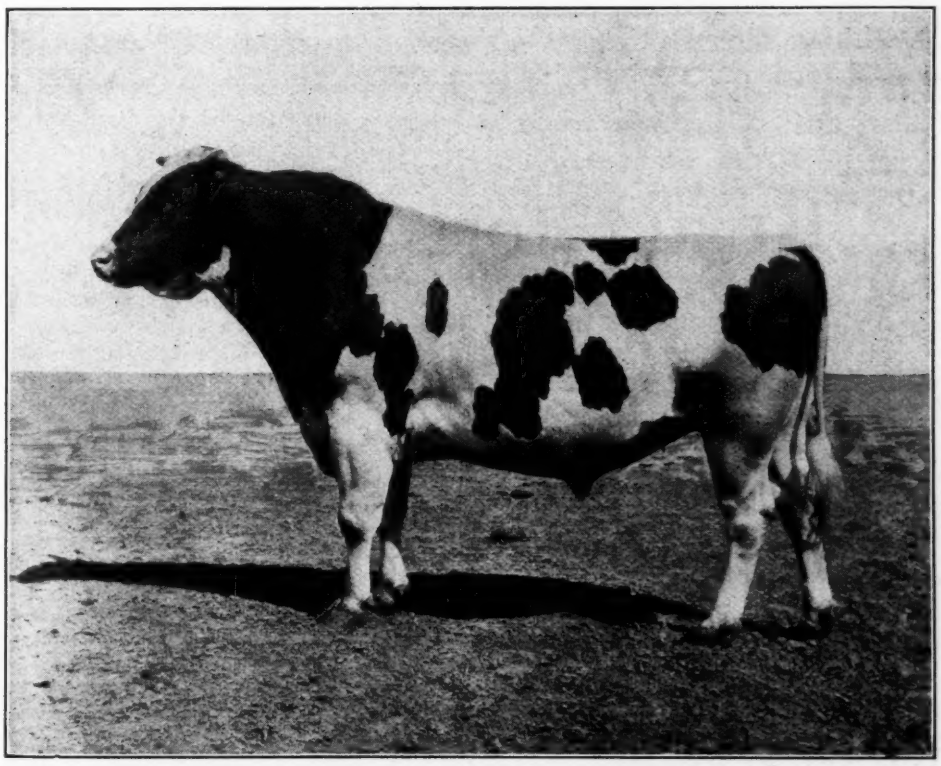


FOBES TRITOMIA MUTUAL DE KOL
Owned by the Munroe Company, Spokane, Wash.

King of the Black and Whites

The Bull Carrying the Blood of 3 Families
Having 3 Generations of 30-lb. Cows

The only bull whose 7 nearest dams have records that average 31.04 lbs. butter in 7 days, and 6 of them 30-lb. cows, and the average 30-day records of those 6 is 126.58 lbs., which is the greatest of any bull of the breed.

The only bull that has sired two 30-lb. cows that have each produced a 30-lb. daughter that have also produced 30-lb daughters. Appears three times in the pedigree of King of the Black and Whites, giving him the strongest transmitting blood of any bull of the breed.

A few bull calves from high record dams, sired by this sire, for sale.

State about what you wish to pay and we will describe the best bull we can sell for the money.

A. A. Hartshorn Holstein Co.

HAMILTON, N. Y.

Ready for Service

A splendid son of **ADMIRAL WALKER PIETERTJE,** who now has 53 A. R. O. daughters, three with records above 30 lbs. of butter in seven days. There is only one other sire of the breed that has produced three daughters that have each made over 125 lbs. of butter in thirty days. He is sire of the only 31-lb. cow that has a 31-lb. dam and has produced a 31-lb. daughter.

This bull was born April 5, 1913. He is a growthy vigorous bull, a right good individual, and light in color. His dam has produced 20.8 lbs. of butter in seven days and over 84 lbs. in thirty days. She is a heavy and persistent milker.

Write us, and we will be pleased to send chart and price of this bull. We have a few other young sires about ready for service.

BONALEVO FARMS

R. E. CHAPIN & SON BOX C BATAVIA, N. Y.

The Best That Moyerdale Has Produced

I now offer our quarantined herd consisting of thirty-two females and one male. Among the number are:

Segis Tehee Beets 31.25
(Her dam 25.64 lbs.)
Nudine Lyons De Kol 30.72
(Her dam 33.31 lb.)
Isabella Hengerveld 30.42
(Her dam 27.66 lb.)
Cleopatra Gelsche 29.12
(Her dam Prilly)
Segis Tehee 29.06
(Her dam 25.64 lb.)
Segis Blanche Lyons 3 yr. 28.90
(Her dam 34.36).
Betta Lyons Walker 3 yr..... 28.35
(Her dam a 34-lb. daughter of a 34-lb. cow.)
Segis Beauty 3 yr. 28.24
(Her dam 30.51)
Miss McKinley Walker 27.73
(Her dam 29.62)

Every one has a good A. R. O. record.
Ten of them are out of 30-lb. dams.
Thirteen of them are by King Segis.
Five of them are by King Walker.
Five of them are by King Pieter.

Two of them are from A. & G. Inka McKinley (29.62 lb.), the dam of King Segis.

The bull is a son of King Segis, and Betta Lyons Netherland, the first 34-lb. daughter of a 34-lb. cow.

Twenty-two are bred to King Lyons, the wonderful Moyerdale Herd sire, and the balance can be.

Apparently they are all in perfectly healthy condition, although with but one exception, they have every one been members of the quarantined herd for three years or more. In fact one was slaughtered last winter on account of failure to breed, and absolutely no evidence of the disease could be found. They are all reactors, but look as though they would last until they die of old age. They have not been tuberculin tested since they were set apart from the rest of the herd three years ago.

Thirty daughters of these cows are now in the regular Moyerdale Herd, and will be given every opportunity for development.

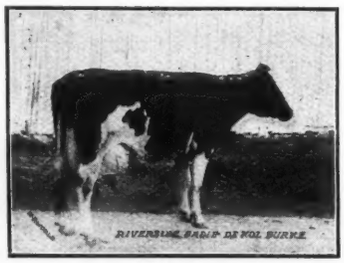
The last bull calves from two of the members of the quarantined herd were sold for $2400.00, and one which we now have is held at $1000.00.

On account of the extra work connected with keeping a quarantined herd we have decided to dispose of it in its entirety. New York State breeders thus have a chance to purchase at less than half value a foundation of as good animals as Moyerdale ever produced. This offering spells opportunity for the purchaser.

Address

H. A. MOYER - - Syracuse, N. Y.

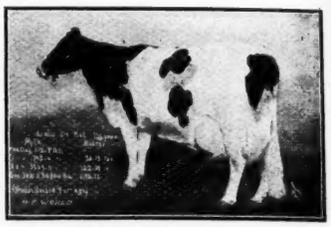
Great Yearly Milk and Butter Cows Our Specialty



RIVERSIDE SADIE DE KOL BURKE

Average Milk 6 mo. . . 100.4 lb. daily
Milk 1 yr. 28,826.4 Butter 1085.13
Milk 2 yr. 54,808.2 Butter 2065.29
Butter 7 days 32.29 30 days 130.14
Milk 30 days—Average per day 124.5

Result of Two Years Semi-Official Testing



ARALIA DE KOL, AT 12½ YEARS
First 28,000-lb. Cow

Milk 1 yr. 28,090.0 Butter 1142.3-
Milk 2 yr. 50,993.4 Butter 2103.0
Butter 7 days 30.14 30 days 122.3-
Milk 30 days—Average per day 102.-

6 Cows Average	Butter	1005.01	Milk	23,109.4
15 Cows Average	Butter	901.40	Milk	20,525
40 Cows Average	Butter	776.22	Milk	18,160
50 Cows (including 13 2-yr-olds)	Butter	736.36	Milk	17,350

Head your herd with a bull whose dam and sire's dam are 30-lb cows with 1000-lb. yearly records. The future market is going to be for yearly record stock. We offer several calves with such backing, also two or three whose three nearest dams average 1000 lbs. butter and around 25,000 lbs. milk. They are splendid individuals, combining great dairy type, transmitting ability, and heavy production.

Write us for prices and pedigrees.

A. W. MORRIS & SONS CORPORATION :: Woodland, California

BE SURE TO MENTION THE WORLD

This is Sir Veeman Hengerveld

the bull that is making good through both his sons and daughters. Don't you want to breed this kind? Here is one of his sons, ready for immediate service, two-thirds white and a splendid individual. The dam made her 2-yr.-old record of 14.41 lb. in July and is sure to make a big record in later tests. She was by Sir Korndyke Pontiac Artis, and from one of the good daughters of Sir Veeman Hengerveld.

This is a bull that will make money for you.

Pleasant Hill Herd :: Poland, New York

Holstein-Friesian World

Vol. XI LACONA, N. Y., JUNE 20, 1914 No. 25

Tidy Abbekerk Prince

By M. S. Prescott.

FIVE 30-lb. daughters in as many months—do we realize exactly what this achievement means? Perhaps we can grasp it a little better if we stop to consider the number of sires that have produced five 30-lb. daughters in a whole life time of service. We can count them all on the fingers of our two hands, and when we name them over we are striking pretty close to the greatest sires the breed has ever produced—Pontiac Korndyke, Hengerveld De Kol, De Kol Burke, King Segis, Pontiac Aaggie Korndyke, Sir Veeman Hengerveld, Homestead Jr. De Kol, and the latest addition—Tidy Abbekerk Prince. These are the only bulls in the world that can boast a place in this exclusive class, but how many years of constant effort has it taken them to get there? Several at least excepting of course, Tidy Abbekerk Prince, whose rise has been accomplished in less than half a year. He is still on the upward path for he has a large number of other good daughters in hands where they will be given every opportunity for development. Messrs. H. M. Dunham & Sons of Marcellus have a large number of the older ones, which were selected solely on account of their remarkable individual promise. In fact, this is a characteristic of the offspring of this bull, who thus proves himself really worthy of his place in this select list.

Two years ago Tidy Abbekerk Prince had eight A. R. O. daughters including a 22-lb. 3-yr-old, and a 20-lb. 4-yr-old. One year ago his list of A. R. O. daughters numbered thirty-three including ten with records of 20 to 26.64 lb. As near as we can determine he now has forty-six A. R. O. daughters, including the following:

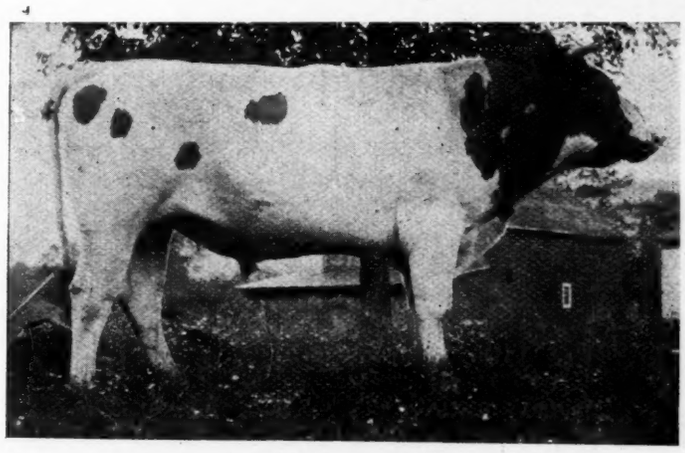
Tidy Abbekerk Princess Gretel	32.30
Tidy Abbekerk Princess Jewel	31.70
Tidy Abbekerk Princess Alche (3-4 udder)	30.30
Tidy Abbekerk Princess Pauline	30.27
Tidy Abbekerk Princess Bettina	30.13

and thirteen others with records of 20 to 27 lb. This represents three years of A. R. O. work, although the first 30-lb. record was not made until early in 1914.

Tidy Abbekerk Prince as his name implies, is a son of Tidy Abbekerk, long famous as the "Champion of Canada." Tidy Abbekerk has a 7-day record of 27.29 lb. butter, 551 lb. milk and as an individual, is one of the greatest the breed has ever produced, and individuality seems to be a characteristic of the whole family through both her sons and daughters. She has five A. R. O. daughters including two with records above 28 lb.

In addition to Tidy Abbekerk Prince, Tidy Abbekerk has a splendid transmitting son in Prince Abbekerk Pauline, whose daughter, Madam Posch Pauline, appeared as the cover illustration of the World June 6th. She is the champion aged cow of Canada. Only two other cows in the whole world have produced over 800 lbs. milk and 34 lb. butter in a week.

The sire of Tidy Abbekerk Prince is Sir Cornelia Posch, a Canadian sire, whose daughters have been given the opportunity to make but few records. Two of them, however, have done very well, one making 27.11 lb. and the other 22.93 lb. at 3 years. It is worthy of note that both were out of daughters of Tidy Abbekerk. Sir Cornelia Posch was by a full brother to the former World's Champion senior 2-yr-old, Alta Posch (27.08 lb.), and so it will be seen that there is plenty of good blood back of him.



TIDY ABBEKERK PRINCE, No. 37770.

Tidy Abbekerk Prince was owned for several years by the late W. M. Hallock, Spencer, N. Y., and was used both in Mr. Hallock's herd and in that of the late Geo. F. Blewer. His opportunities, while more extended than fall to the lot of many sires, were not by any means in proportion to the results he has achieved, and it is therefore safe to predict far greater things for him during his coming years of service in the Brookside and Westover Herds.

Methods of Improving Dairy Herds

By Prof. R. E. Hundertmark, State College of Washington.

III.
Herd Improvement Gained by Better Feeding.

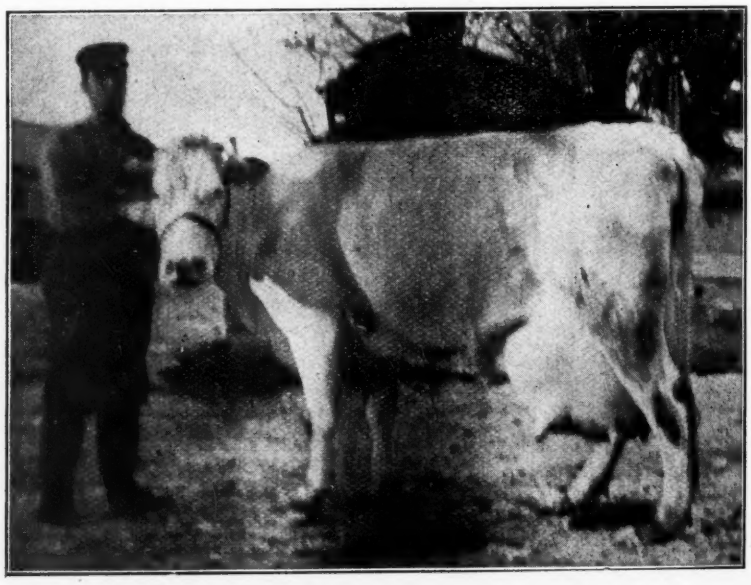
ALTHOUGH better breeding and more individual selection will raise the standard of production of our herd, this must be supplemented by a third factor—rational feeding. Each of these three factors must be a part of the work in herd improvement. In order for the greatest gain to be effected one must be the complement of the other or the highest improvement will never be reached.

DUTCHLAND SIR HENGERVELD KORNDYKE No. 86315—A son of Dutchland Sir Pontiac Rag Apple, from a granddaughter of Pontiac Korndyke Hengerveld De Kol. Owned by John R. Parsons, Earlville, N. Y.

There is no doubt but that much of our stock has never reached the production and size of which it is capable, on account of the fact that the proper amount and proportion of feed has not been fed. Under feeding stock rather than over feeding has been the rule, and a half fed cow has never shown herself to be a very profitable animal.

In order for the dairy cow to reach the highest production possible, and at the same time maintain the highest degree of efficiency, she must be run at full capacity. In this respect the dairy cow can be likened to a machine in any manufacturing plant. A certain amount of feed is in all cases necessary for the upkeep of the animal, which amount varies but little whether the cow is giving milk or not. In the case of cows with mediocre ability this maintenance ration amounts to 50 per cent to 60 per cent of the feed. With cows bred for milk production the ration for maintenance is less, and in some cases may be 35 per cent to 40 per cent of the total ration. Very often under ordinary farm conditions the ration fed to dairy stock is not much in excess of the amount necessary for maintenance, let alone enough for milk production. The futility of feeding a maintenance ration and then depriving the animal of the necessary amount for milk production can easily be appreciated.

In the hands of feeders who recognize the importance of liberal feeding, this may be over done resulting in an unequal balance between the feed consumed and milk produced. When this happens to be the case and feed is not regulated according to the amount of milk given by the several animals in the herd, it will be found that the high producers are still being under fed, while the light producers are getting feed in excess of the amount needed for milk production.



MAID ZOZO DE KOL 2d JOHANNA No. 103608—Butter, 26.17; milk, 653.30. Owned by Chas. K. Record & Son, Peterboro, N. Y.

The relation between feed and milk production can be regulated by observing the bodily weight of the animal. When there is any marked increase in weight the conclusion is that the cow has feed in excess of the amount necessary for milk, and is using such feed for storing fat on the body. It is usual with well bred dairy stock for the bodily weight to fall below normal soon after calving; this being due to the fact that it is impossible for the cow to consume enough feed for the amount of milk given at that time. With the advance of the lactation period the weight of the animal remains about normal gaining considerably in weight as calving time approaches. Any animal showing a disposition to lay on flesh during the milking period rather than to increase in milk production lacks dairy temperament, and from a dairy standpoint will be an unprofitable animal.

The necessity of furnishing food in the proper quantity will be realized when the demands on the animal's body are considered. In all cases a maintenance ration must be fed, possibly a foetus developed, or as is sometimes desired, more flesh can be put on the animal's body, and in addition the solids in the milk must be produced.

In order to meet these demands the ration must be balanced. The reason for this being that the feeds must be mixed so that the three main nutrients—protein, carbohydrates and fats be in the proper relation and proportion to meet the needs for growth,

maintenance, milk production, or other demands of the animal's body.

The protein or nitrogenous part of the food is used in the animal's body to form muscle tissues, blood, tendons, and the casein and the albumen in milk. The carbohydrates in feeds differ from the protein in that they contain no nitrogen. This is represented by starch and sugar, and is used by the animal to keep up energy, heat and fat in the body, and to assist in the production of sugar and fat in the milk. The fats in the feeds contain the same elements as the carbohydrates, but in a more concentrated form, and in order to get fat into its carbohydrates equivalent it is multiplied by the factor 2.25.

The proportion or balance between the digestible parts of these three classes of nutrients gives us the nutritive ratio. A nutritive ratio of one to five means that there is one pound of digestible protein to five pounds digestible carbohydrates and fats. A wide ration is one in which the ratio is 1:8 or 1:10, and a narrow ration 1:3 or 1:4. For dairy stock it has been found that a rather narrow ration —say 1:5, is to be preferred. This is necessary on account of the high per cent of nitrogenous matter in the milk. Dairymen in Washington are well situated to grow and feed nitrogenous crops.

When feeding cows to bring out the best production possible it must be recognized that a somewhat different ration should be given during full flow of milk than later in the lactation period. The needs of each animal differ from time to time and should be fed accordingly. In planning a ration begin first with the roughage, this will determine to a certain extent the kind and amount of grain to be fed. It is possible to balance a ration with coarse dry roughage, which possibly could not be consumed in sufficient quantities to make much milk. On the other hand a grain ration could be mixed in the right proportion of protein, carbohydrates and fats to give the right amounts of each. In neither case would the ration be satisfactory. In the absence of silage or roots, the grain as a rule should be less than one-half the weight of the dry roughage. Palatable food must be supplied in some form for the same reason that it is supplied in the human family. Although dry food may be palatable the best results will not follow, and some succulent feed as green feed, silage or roots should be fed. These feeds tend to keep the bowels loose, consequently keeping the animal in better condition, and better able to realize on the nutrients fed in the dry food.

No matter what line of work tending to herd improvement is carried on; whether better feeding, breeding or selection, it will be found that any one will necessitate considerable study and thought on the part of the feeder or breeder. The three phases of the question of herd improvement as taken up in this paper are of the most consequence, and form the basis for any further work along this line. A number of dairymen in Washington have shown what can be done along these lines of dairy improvement, and we hope that this article will encourage others to work along similar lines and thereby gain the same ends.

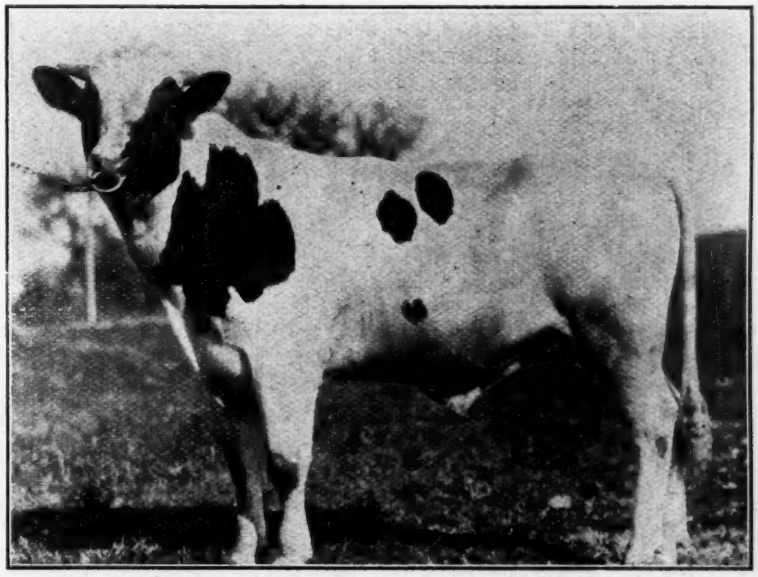
Control of Sex

TO CONTROL the sex of offspring is a thing which the breeder of livestock would very much like to be able to do. Sex control can not be hoped for until the laws of sex-determination are known. The search for these laws has engaged the attention of students for centuries past. Many theories regarding the matter have been propounded, but only within recent years have careful experimental and statistical investigations on sex-determination been made.

Some years ago the Maine agricultural experiment station undertook the collection of statistics in regard to cattle-breeding operations, in order to find out whether the time of service in relation to the period of heat had any relation to the sex of the resulting calf. About 1860 it was suggested by a European investigator named Thury that, if cows were served at the very beginning of heat, there would be a tendency towards a preponderance of heifer calves in the resulting offspring.

On the other hand, if the cows were served relatively late in heat, there would tend to be more male calves born. Thury had practically no concrete evidence in support of this theory, and after a few experimental tests of it on a small scale the matter dropped out of notice and has been practically forgotten.

Within the last few years experimental studies on sex determination in lower animals like the frog and toad have tended to show that in its essentials Thury's idea was probably right. In these lower animals it has in some cases been possible to control sex absolutely, that is, to produce all the offspring of one sex. The statistics regarding sex determination in cattle collected at the Maine station are the most extensive which have yet been available to test this matter.

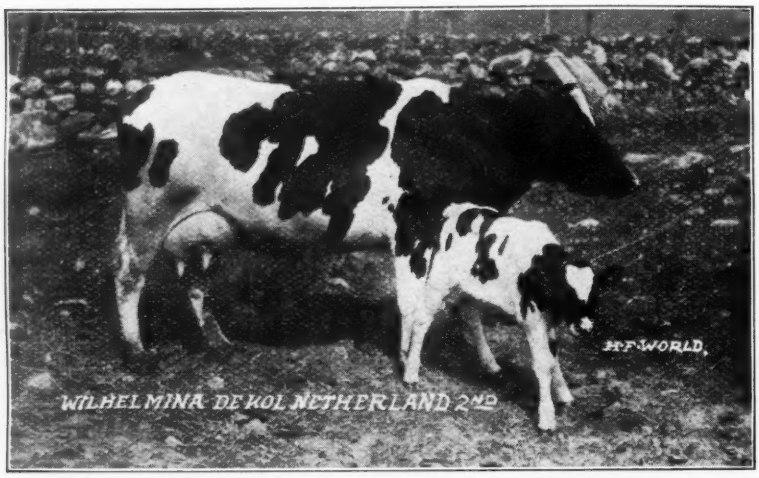


KING SEGIS PONTIAC ALCARTRA 2d No. 10540—A son of the $50,000 bull and the 25.8-lb. cow, Meta Ward Piebe, who has a 30-lb. daughter and a 27-lb. dam. Owned by Johnson Bible Institute, Kimberlin Heights, Tenn.

Putting together all the authentic evidence which has been collected at the Maine station and at several experiment stations in Germany, the relations are as shown in the following table:

	Sex of calf Male	Female	No. males to 100 females
Early heat	134	178	75.3
Middle heat	67	58	115.5
Late heat	77	44	175.0
Total	278	280	

These figures comprise 558 distinct breeding operations to test the matter. They show that, when the service was early in the heat, there were 133 heifers to every 100 bull calves, or put the other way about, there were 75 bull calves to every 100 heifers. When the service was late in the heat, this relation was reversed. There were then 175 bulls born to every 100 heifers.



WILHELMINA DE KOL NETHERLAND 2d No. 167777—Butter, 30.15; milk, 570.10. The calf is sired by a bull whose two nearest dams average over 30 lb. Owned and developed by L. J. Mosher, St. Johnsville, N. Y.

Plainly the proportion of sexes changes with time of service. These figures have been subjected to the most refined mathematical tests, applied to determine whether they are to be regarded as accidental or as representing a real and definite law of sex determination. The results point with a high degree of probability to the latter conclusion.

The position of the Maine station in regard to the results set forth should be clearly understood. It is not contended or supposed that the time of service in relation to the period of heat absolutely controls the sex of the subsequent offspring. It is believed that the facts show, with a considerable degree of probability, that the sex ratio in cattle may be to some extent modified by controlling the time of service.

The amount of such observed modification is not so great that the matter may be tested with a few individuals. There is every reason to believe that an effect would only appear in fairly comprehensive statistics. The matter is one of much practical consequence to the stock breeder. Because this is so, we would caution the reader against misinterpreting these results. A trial of a half-dozen individuals will not in any sense adequately test the accuracy of the results set forth above.

The probability that the sex ratio may be changed by careful attention to this matter of time of service is sufficiently great, in our judgment, to warrant any man in modifying his breeding practice in accordance with it, particularly since in so doing he will be incurring no added risk of any kind. In the everyday affairs of life in regard to business, investment of the funds and the like, practical men every day undertake courses of action on the basis of probabilities much smaller than that in favor of getting an increased number of males if the cows are served late in heat.

The practical cattle-breeder in most cases would like, if he could get it, an excess of female calves. All the evidence at hand warrants the belief that, by taking care that cows are served as soon as possible after the onset of heat, there will be some reduction in the proportion of male calves born.

In short, the facts warrant the breeder in paying attention to the time of service in his cattle-breeding operations, but he must not suppose that by so doing he can absolutely control the sex of the offspring, or even approach measurably close to absolute control. He can at best merely modify, over a period of years, the sex ratios in greater or less degree, in the direction which he desires.—Chas. D. Woods, Director Maine Experiment Station.

Prof. Van Pelt's Opinion of Inbreeding

(From Kimball's Dairy Farmer)

To the Editor: Some time ago I read the article in Kimball's Dairy Farmer which stated that the Dimmick herd of Holsteins all traced to one cow and that the same bull has been at the head of the herd for 14 years. The author also spoke of a herd of Jerseys that had been inbred and laid special stress on the conformation and producing ability of the herd. He rather questioned the advisability of introducing cold blood. Have you any data on the subject? If one has a good bull he might as well pay a good price and keep him at the head of the herd as to buy three or four fairly good ones for the same price. I would like very much to have your opinion on the matter.—B. W. P., Iowa.

IT IS TRUE that at least a large portion of the wonderful Dimmick herd of Holsteins traces to one cow and no doubt one sire has been used in this herd for as long as 14 years. This does not necessarily mean that inbreeding has been practiced extensively. Furthermore, it is true that the great James L. Cooper herd of Jerseys in Tennessee sprang from one cow. Mr. Cooper boasts that he bought only one cow. Neither does this necessarily indicate that inbreeding was followed in the herd.

TWIN HEIFERS sired by a son of the 38-lb. cow. Owned by F. W. Ames, Morristown, N. Y.

There are times when it is wise to inbreed, other times when the master breeder would line breed and on other occasions the advisable plan would be to out cross, introducing into the herd blood foreign to strains that had been used. Expert is the breeder who knows for sure when each of these policies should be followed.

We are not prepared to unqualifiedly advocate inbreeding. It intensifies blood lines; therefore it renders intensive both good qualities and bad. Providing one has reached the stage in his breeding operations where he may consider the individuals of his herd as nearly perfect as is within his power to breed them, or providing he has at the head of his herd a better sire than he can expect to again secure, then inbreeding is advisable.

Where one merely inbreeds for the purpose of saving the purchase price

of a second bull, inbreeding is absolutely not advisable.

This method above all others demands most careful thought, study and judgment. Outcrossing, or using animals so remotely related that they do not even belong to the same strain of the breed, represents the other extreme. The use of this method should be employed when it is desired to correct the general faults of the strain that has been bred. Very often it is advisable, but should not be carried to extreme.

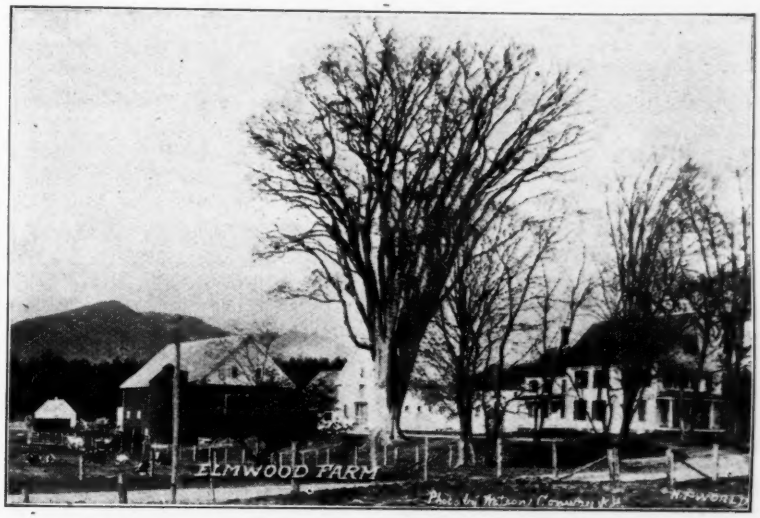
Perhaps one of the most advisable and most economical plans of breeding is that which is known as line breeding, or the breeding together of animals remotely related. By following this plan one may have at the head of his herd two sires and breed them interchangeably to each other's daughters.

For instance, every great family of each breed traces to a certain herd. Line breeding is the substitute for inbreeding and is employed for the purpose of doubling up or intensifying the blood lines of the fountain head without incurring the liability of disaster which may follow inbreeding. As an example of this, let it be supposed that there is a great family of some one of the dairy breed known as the A's. A may be a great sire or a great cow, but nevertheless is recognized as the fountain head of the A family. Breeders knowing the valuable characteristics of this family, strive to incorporate in their herds just as much of the blood of A as possible. One breeder, after many years when the name of the A family has become known, finds he has been using a grandson of A at the head of his herd and has many great granddaughters of the great sire or cow A. The problem presents itself as to what these females should be bred to. The idea of line breeding presents itself and in most instances the breeder would be very fortunate to secure a son or another grandson of A to mate with the great granddaughters of A. Then in turn the daughters of the son of A, or the second grandson of A could with wisdom be bred back to the first grandson of A, providing his daughters had demonstrated acceptable productivity and conformation.

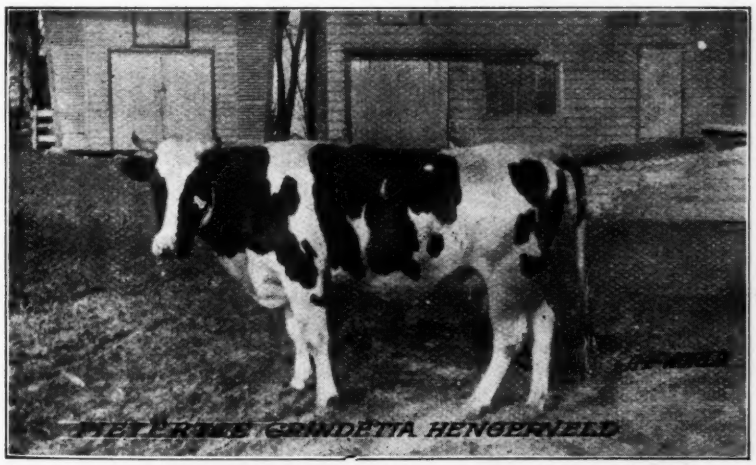
Practically the same good results will be secured from this method of breeding as from inbreeding, and where care has been made in the selection of sires, the slight outcross has been such as to add to rather than detract from the greatness of the family.

Many if not most of the great animals recorded in history have accomplished their greatest result by outcrossing and line breeding to attain acceptable conformation and production, after which inbreeding has been practiced to intensify the blood lines and thereby retain that which has been secured through other methods.

The breeding of live stock is a wise man's game and requires much study and consideration. He who in a lifetime is able to build up a great herd of cattle and strengthen the blood lines in such a manner as to retain the greatness of the family, or herd he has established, has accomplished more than the master, architect, painter or sculptor.



ELMWOOD FARM, John E. Potter, Prop., Conway, N. H.



PIETERTJE GRINDETIA HENGERVELD No. 164674,—At 3 years; butter, 21.46; milk, 509.50. Owned by N. V. Lasher, Fultonville, N. Y.

THE CERTIFIED MILK PRODUCERS' ASSOCIATION

The Certified Milk Producers' Association of America will hold its Seventh Annual Convention June 25-26, 1914, at the Copley Plaza Hotel, Boston, Mass. The program includes a banquet at the Atlantic House, Nantasket Beach, and a trip to the Walker-Gordon Laboratory Farms.

W. P. Schank, the Ayrshire breeder of Avon, N. Y., is President of this organization and Harry B. Winters, Albany, N. Y., is Secretary-Treasurer.

OUR COVER ILLUSTRATION.

Fobes Tritomia Mutual De Kol is one of the greatest sires of the present day. His 30 A. R. C. daughters includes a 36-lb. cow, a 34.96-lb. 4-year-old, and another above 30 lb.

He was formerly owned by S. B. Jones' Son, Watertown, Mass., but now makes his home, as stated, with the Munroe Company, Spokane, Wash.

The Shenandoah County Holstein-Friesian Breeders' Association has been organized in our county, with W. H. Newman as president, B. F. Richards, vice-president, and Geo. K. Logan, Secretary-treasurer. The organization was effected with about thirty-five members and we expect to materially increase that number in the next sixty days.

The Holstein-Friesian Cow

George F. Smith in The Barre Gazette.

SINCE in the study of any people or breed of animals their origin and environment play an important part, it is only fitting that we begin this article with a short sketch of that country that gave to America both the Mayflower and the most popular breed of dairy cattle of today. A well-known historian has written admirably of Holland as the land of pluck. "Hollanders made Holland," he says, and proceeds to describe the desolate, almost uninhabitable, conditions found by a German tribe wandering away in search of a country. He adds: "It is plain that miracles of courage, constancy and industry must have been accomplished by the Dutch, first in creating and then in preserving such a country. The enemy from which they had to wrest it was triple—the sea, the lakes and the rivers. They drove back the sea, drained the lakes and imprisoned the rivers. The necessity of a constant struggle in defence of existence has made them a highly practical and economical people." To-day this country is one of the most fertile, wealthiest and best regulated countries in the world.

In this land of clear-headed, temperate, sturdy people, originated the Holstein-Friesian cattle from a cross of the native white cattle and the black cattle of a German tribe of the upper Rhine. These cattle are known to be over 2000 years old and had gained a reputation for their production before the history of the other dairy breeds began. The luxuriant feed of the moist reclaimed fertile lands, the extremely good care and thought given these cattle and their development through the centuries and the close association with the people has resulted in a large, strong, heavy producing, quiet tempered Holstein-Friesian of today. Notwithstanding their native environment, they do well anywhere, being very hardy, seldom sick or diseased, and ready to eat anything at hand. They are the largest of all dairy cattle, size being of great importance, cows weighing from 1200 to 1800 pounds, and bulls often reaching 2500 pounds. They carry udders of fine quality and enormous size necessary for great production. The milk contains an average fat content of from 3.3 to 4 per cent. The fat globules are very small, the milk being very easily digested, and it has gained great popularity throughout the country as an ideal food for infants or invalids.

Holsteins first came to this country in the early part of the 17th century when the Dutch settlers brought with them their black and white cows. The foundation stock of the present day registered Holsteins were imported in 1852 by W. W. Chenery of Massachusetts. It is interesting to note that of the earliest importations, several animals were owned in Barre, the late Chas. Robinson having several head. Hollander, a wonderful sire imported by Mr. Chenery at $6000, was sold to a number of farmers of Barre for $1500, owing to lameness. He was owned here for several years. From him came the best stock this section has ever seen, that gave Barre her enviable reputation as a great center. Had Holsteins met with the favor they deserved, the history of milk production in Massachusetts might be a different story; but prejudice ran high against these giants of the dairy that gave such unbelievable quantities of milk, legislation was started against them, and before long it became almost a criminal offence to sell the milk of Holstein cows, thus driving the farmers to make an unwise and unprofitable change.

NELLIE LAKE PIETERTJE DE KOL No. 67806—Butter 7 days, 30.79; milk, 566.50; butter 30 days, 122.62; milk, 2391.60. Owned by H. C. Wood, Morrisville, N. Y.

The first Holstein Breeders' Association was started in 1871, and a herd book was published the following year containing the names of 61 males and 67 females. To-day there are over 170,000 pure-bred Holsteins in the United States. Five years later the foundation of the advanced registry system was laid, which is today the most complete, efficient and practical, of that of any Association. It is the only association to provide for seven or 30 days tests, as well as the yearly test. While the value of the short test is admittedly of less importance than the yearly test, it is of far more importance in that it gives the small or poor breeder the same chance to prove the merits of his stock that is afforded the man who can pay the bills for the more expensive yearly tests.

Holsteins have reached an almost unbelievable record for production, excelling all other breeds in both milk and butter production. Probably the most familiar and oft recurring name is "De Kol." Twelve years ago De Kol 2d,the foundation cow of the family made a record of 26 pounds of butter in seven days, the largest record then known. Through her famous sons she has proved her wonderful transmitting ability, and is an ancestor of the best stock in the country today. This record has been broken again and again, until today three cows have passed the 40-pound mark. The present possessor of the world's record for 7-day butter production is K. P. Pontiac Lass, with 44.18 pounds of butter to her credit. She is also champion in all classes to 100 days. Banostine Belle De Kol holds the record for yearly butter production, she having produced 1322.92 pounds; Creamelle Vale, a cow in the famous Field herd of Brockton, has produced the most milk, her production being 29,591 pounds. Riverside Sadie DeKol Burke, a California cow, has won fame by her enormous production of milk, having given 902 pounds in seven days, or an average of 64 quarts for each day.

That her record is not abnormal is indicated by her records for longer periods, as she averaged over 60 quarts per day for 30 days, over 50 quarts per day for six months, and gave for the year 28,825 pounds, or 14,400 quarts in one year. The only cow to hold all records from one day to one year at the same time is the well-known Colantha 4th's Johanna, for whose son Mr. Field of Brockton has refused $30,000.

Best of all is the fact that these cows are not "freaks," but only examples of the great producing capacity of the breed; 233 cows have produced over 30 pounds of butter in one week, 25 have averaged over 100 pounds of milk in a day for seven or more consecutive days, and 30 have produced over 1000 pounds of butter in one year. These are official tests. Since comparatively few of the Holsteins in the country are given a chance at an official record, it is easy to see that these figures represent but a small per cent of the animals capable of as great records.

Correspondence

De Kol Queen La Polka 2d—A Continuous Producer.

A number of very good articles have been written about the great cow, De Kol Queen La Polka 2d, but I do not think anything has ever been written that the cow is not worthy of. As her owner, I do not think I have given her the advertising that is due her and I have never written much regarding her. I have however, made the statement to some of my friends that I think she is one of the most wonderful cows in the world.

But why is she such a wonderful cow? Firstly, her records. Taking the best seven successive days of each year they are as follows:

April, 1908, butter, 26.63; milk 568.1.
April 1909, butter, 25:65; milk, 708.3.
March, 1910, butter, 35.38; milk, 841.8.
April, 1911, butter 30.93; milk, 845.8.
Feb., 1913, butter, 29.56; milk, 568.4.
March, 1914, butter, 32.58; milk, 821.7.

She has made six records at different years which average 30.12 lb. butter and 725.6 lb. milk in 7 days. I think she is the only cow in the world that has ever made six records at different years which have anywhere nearly that average either for butter or for milk.

The records in 1911 and 1913 were not reported but were made out and sworn to by a supervisor from Cornell. She was tested for only a few days last year as she did not do well when she freshened, but made almost 30 lb. Now, at ten years of age, she has given over 800 lb. milk in 7 days and has made 32½ lb. butter.

A second reason is that blood tells. Consider her sire, Pietertje Madge De Kol Prince. He had only three daughters but their average record is over 29 lb. One made 24.79 after losing a quarter of her udder. Another has over 27 lb. and it was expected from the appearance of the cow that she could easily increase but, unfortunately, died from blood poisoning this spring. In looking over the Advanced Registry book you will find few sires of that quality. The dam of Queen was never tested but her sire was half brother to Aaggie Cornucopia Pauline, butter 34.32, and full brother in blood to Lilith Pauline De Kol, 28.23 lb., who held the world's record as a 4-yr-old for 4 years. Here then we have another cow to bear witness to the rule that blood tells.

Yours very truly,
CLAYTON SISSON.

Sherburne, N. Y.,
May 17, 1914.

Breeder's Bulletin

S. R. Clark, Onondaga Valley, N. Y., writes: Kindly cut out of my ad. that part relating to bull out of a 32-lb. cow. The animal is sold to Arthur H. White, Pulaski, Pa.

King Pontiac Calypso has to date 18 A. R. O. daughters nearly all above 20 lb. One of his daughters now on test is making on practically no feed except grass, 25 to 26 lb. butter at 3 years, 1 month of age.

H. A. Moyer, Syracuse, N. Y., writes: In this issue I am offering all of the animals comprising the herd that has been maintained on Moyerdale Farm under the Bang system in consequence of a tuberculin test conducted some three years ago. Since that time we have tested periodically the members of our regular herd, and thus far have discovered but a single reaction, which conclusively proves that it is possible to maintain a quarantined herd successfully without danger to the other animals on the farm. We have not kept in the quarantined herd animals that showed physical signs of disease, in fact this herd is made up of as healthy a looking lot of cattle as can be found anywhere. Probably some of these animals reacted from other causes than tuberculosis. As a breeding proposition it would be hard to find a herd offering equal possibilities. These cattle stand for the best that Moyerdale has been able to produce, and it is perfectly safe to assume that their first crop of calves will easily be worth more than I am asking for the herd.

Following is a later communication from Mr. Moyer: Regarding the list of cattle which I am advertising, I have decided to take out one more animal which had a slight swelling on one quarter of her udder that I thought ought to be destroyed before offering them for sale, as I was afraid there might be something there that ought not to be there, so there are 31 females now left to offer for sale, which will be bred to King Lyons, and they are just as clean and healthy a looking bunch as you ever looked at. Now in this list of cattle I have 3 30-lb. cows, and 7 daughters of 30-lb. cows in the place of ten as my list claims, and it should be changed to 7 daughters of 30-lb. cows.

The official 100-day record of Paula of Chagrin Falls 3d is 412 lb. butter and 10,112.9 lb. milk. This milk record beats that of the former American Champion, De Kol Creamelle by 95.9 lb.

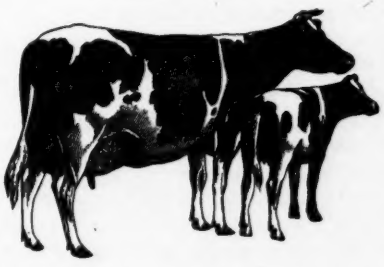
What the Specialists say about Holstein Cow's Milk

Dr. Thomas Morgan Rotch of Harvard Medical School, the great authority on infant life, says:

"Now from a medical point of view, the Holstein Milk is exactly what we find best for infant feeding, and it is an extremely good milk for any one to drink"

"The milk is good and nourishing, and comes nearer to human milk than that of any other breed of cows"

"As a physician dealing with infants, I have many instances coming to my notice of cases where the weaker milk of the Holstein cow is the only quality the stomach of the infant will retain. Many infants thrive upon it who could not digest the stronger quality given by other breeds."



The same qualities that recommend Holstein milk to physicians for infant feeding make it an ideal milk for any one with impaired digestion or for those who find ordinary milk distasteful. The butter fat is moderate in amount; it is finely emulsified and comparatively free from the volatile glycerides.

Holstein milk costs no more than ordinary milk. If you have any difficulty in securing it, write us and we will help you get it. In any case send for our free booklet, "The Story of Holstein Milk."

Holstein-Friesian Association

Box 182 Brattleboro, Vermont

HOLSTEIN-FRIESIAN WORLD

The only weekly Holstein-Friesian Journal.
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Editors

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When a subscriber wishes his subscription discontinued, he should notify his nearest office.

Offices of publication, Hastings Building, Lacona, N. Y., and 1025 Sherman Ave., Madison Wis.

Approved cuts of meritorious Holstein-Friesian animals, when furnished, will be published free of charge.

If photograps are sent, cuts will be charged for at cost price.

All matter for publication in the Eastern Edition must be received by the Saturday preceding date of issue.

When so desired, advertising copy will be prepared or revised for our customers free of charge.

ADVERTISING RATES

One dollar per inch, each insertion.

On yearly contracts for a given space a discount of 50 per cent will be allowed, the same rate of discount to apply to any larger space that may be required, except for public sale advertising. On yearly contracts for every-other-week advertising, a discount of 35 per cent will be allowed.

Special page rates (applying to other than cover pages, which admit of not less than the regular yearly rate)—

Full page (30 inches) for one year, 52 issues, $650.00.

Half page (15 inches) for one year 52 issues, $350.00.

Madison Sometimes it happens that my engagements in the Middle West come so close together that I can hardly return to Lacona in the space of time between them. Then I am glad to renew my acquaintance with Madison, the beautiful oak-embowered, lake-embraced capital city of Wisconsin, home of the Western office of The Holstein-Friesian World, also of the University of Wisconsin and of Senator La Follett. I mention the World first because it is through this paper that my readers are mainly interested in Madison.

The city is small, numbering some thirty thousand inhabitants, I am told. The freshness of its air and the rural quietness of its streets afforded a welcome relief to us who had been choked and smutted by the dust and wearied by the noise and confusion of Chicago. (The "us" includes Harrington, one of the old-reliables in our pedigree department—he is twenty-four. Harrington has a good business head and is keenly interested in the outlook for the Holstein breed in the West. Last year he visited Holland with another of our boys, Gerow, whose story of the journey was printed in the World last month.)

The main business streets of Madison are in the form of a square bounding the capitol grounds in the midst of which is the magnificent capitol building, a massive structure of marble and granite surrounded by an imposing dome that ranks as one of the architectural wonders of the world. Not far from the public square, on the south, is Lake Monona, and a little further away, on the north, is Lake Mendota around which runs a city boulevard some twenty odd miles in length. On the north side of this lake is Senator La Follett's farm, an old-fashioned, rural-looking place, whose red buildings are neither modern nor pretentious in style, though doubtless comfortable. The main part of the house is of birch, square-built after the manner of a generation ago, and commands a fine view of the opposite shore where the city streets and the university campus come down to the edge of the water. To such a retreat comes the Senator from his strenuous political struggles, and I am sure that he always finds the farm a welcome place of refuge.

The university grounds are extensive and so far as I know are rivaled only in beauty of scenery by one other campus—that of Cornell. Of course, the institution is a growing one, and it is worthy of note that the Agricultural Department now occupies new buildings that in site and equipment leave nothing to be desired.

It was on Saturday afternoon that the senior editor, Mr. Brown with Mr. Harrington and the writer took a walk through the campus. Following a short street that led to the edge of the lake at the foot of the hill below the first of the college buildings, we found ourselves opposite a lawn where an out-door theatrical event was in progress. An improvised arbor provided attractive stage scenery and here, under a leafy canopy, the gaily costumed players were enacting their parts before an interested audience. Behind a screen of green foliage a violinist was drawing his bow with skill rarely equalled, the quivering strings responding in dreamy melody to the touch of the master. In the background was the lake, canoes gliding on its surface and a party of bathers holding carnival near the shore. The picture was suggestive of the classic days when the young men and maidens of ancient Greece participated in the festivities of the Olympian games and for the minute we imagined ourselves under the sunny skies of a land distinguished as the home of philosophy and poetry and art, and true to the Spartan ideals of physical perfection that gave strength and glory to its early history.

Barrington Harrington and I left Madison early on Monday morning for the express purpose of spending the best part of the day in a neighborhood that is becoming famous for its Holsteins—Barrington, Illinois. This country village, thirty miles northwest of Chicago, has for some years been known as the home of such distinguished breeders as H. Stillson Hart, Spencer Otis, Sr., Spencer Otis, Jr., and Geo. E. Van Hagen. Lately their names and Barrington in consequence have attained further prominence on account of a transaction of sufficient importance to win top column position on the first page of the Chicago Tribune—the purchase, in public sale at $20,000.00, of the bull calf, King Segis Pontiac Chicago. With the exception of Spencer Otis, Jr., who is a young business farmer of sufficient ability and good sense to appreciate the possibilities of a productive soil, the gentlemen named, all spend their working hours in Chicago, slaves to the routine of big business, but outside their city offices, these captains of industry hasten to the pastures of Barrington and there plan and plot for things colossal in matters Holstein. Their farms are all located close to town. We visited first the Hart place—one of the finest in respect to location, fertility of soil and excellence of cattle that we have had the pleasure of seeing. Mr. Hart is evidently a good judge of cattle, and it is equally clear that he insists upon a high standard of individual quality in his herd. We were most favorably impressed by the uniformity of type characterizing his animals. They are straight on the back, of good size, the cows carrying level udders, and the herd throughout is well conditioned and good to look at. Mr. Hart maintains a herd of Guernseys in addition to his Holsteins, and among them also the excellence of the Hart standard was quite in evidence.

I never saw cleaner stables than are maintained on the Hartwood Farms. Mr. Hart is certainly doing things in the right way.

Wakefield Farm, Mr. Van Hagen's place, affords an interesting exhibit. The Wakefield buildings constitute a little village by themselves, and the cattle numbering some 160 head, form a herd of about the same size as the

Hartwood herd. Pontiac Dione, dam of Mr. Van Hagen's herd bull, is a leading member of the dairy and a continuous worker. She looks quite as young as when years ago she belonged in Brookside Herd, and was regarded as one of the promising daughters of Hengerveld De Kol, who had his reputation yet to make.

Of the Hawthorn Farms we made only a hasty survey, not attempting to inspect its cattle which were at some distance from the barns. This establishment, comprising some 500 registered Holsteins, is one of the most extensive in this country, and will cut a wide swath when fairly under way. H. L. Orr, the superintendent, is an important factor in the Hawthorn system. He has long been recognized as a good cattle man and is an energetic worker.

Spencer Otis, Jr., has followed a new idea in the architecture of his barns, which are round, the cattle standing in a circular row, facing toward the center. This arrangement is convenient and the peculiar construction of the buildings affords great capacity for hay storage above. The Holsteins on this farm number close to 150 head. Mr. Otis is breeding along careful lines, and is giving personal attention to the operations of the farm. The artist, Hildebrand, was busy taking pictures the day we were there, and in a later issue we shall hope to be able to present some of them to the readers of the World.

E. M. HASTINGS.

PROFIT IN RAISING CALVES

By Irving M. Avery, Mgr., Auray Farms, Sparta, N. J.

Some years ago a lady visited our home farm and appeared intensely interested in everything she saw and inquired: Why on earth do you keep those great monstrous bulls? For a moment I was at a loss for any reply but finally managed to get out that we kept them mainly to provide our young stock with proper and authentic parents.

Well, to begin at the beginning, why do we keep bulls? We keep them primarily to renew the flow of milk in our cows and secondly for the sake of the resulting calves themselves. If we contemplate developing veals we follow one method of procedure—if we intend to develop them to take their place finally in our dairy herd, we work differently.

As the purpose of this article is the consideration of the proper rearing of calves, we will presume that they are intended ultimately to become milkers and proceed with the consideration of the dairy calf. Now contrary to the oldtime, and I'm sorry to say still popular idea, the real development of the calf should begin some three months prior to its birth. In other words the dairy farmer desirous of rearing a fine calf and incidentally developing the dam's milking capacity to the utmost, should put away forever the ancient idea that a cow, when dry, needs only a small space to lie down and a scanty allowance of inferior fodder, with no feed; just because she does not happen to be in profit. I say he should break away entirely from this popular superstition and should feed his cow as liberally (though perhaps differently) when dry as when she is at her full flow of milk. Sounds a trifle revolutionary, maybe, but a fact more generally recognized every day, nevertheless. Just remember that she is eating for two —that she not only has to maintain her own body in a proper condition, if she is to do her best at the pail later on, but she must at the same time provide ample nourishment to develop her calf and grow the hair, hoof, etc. And really you will be a gainer in the end, both in extra milk from little feed and an extra fine calf, that with proper care and handling will develop into an extra fine heifer or an extra fine bull as the case may be, and amply repay the extra time and money expended on the dam prior to birth. If you are out to do a thing at all, do it well. If you start to rear a calf rear it well or not at all. Don't stop at half measures and wonder at lack of success. Just go the limit—it will pay, with cattle.

Heretofore many dairy farmers have considered it unprofitable to raise calves because of the difficulty of securing proper help and the expense of feeding them for at least two years, or until they come in profit; and also because when sold with her first calf, the return has been inadequate after counting the labor and expense of two years of development. Just now, however, conditions have changed and at the present time a good straight grade heifer, in milk, will bring from $75 to $100, instead of $30 to $40 as formerly. There is a tremendous demand for good milkers, in many sections fine grade cows bringing from $125 to $150. Besides it is now pretty generally conceded that the profits of a dairy of cows may best be increased by first increasing the producing ability of the herd, by means of the use of good pure bred bulls, and the subsequent raising of the most promising heifer calves. This is quite impossible under a system of buying and selling, where the calves are all vealed or disposed of shortly after birth and new milkers purchased to take the place of discarded animals. We must be careful that the cost of rearing the calf, however, is not in excess of the market value of the animal at marketable age, otherwise it would be better business to purchase, provided we could secure equally desirable stock. However, with the prevailing high prices for straight healthy dairy animals, this contingency need hardly be considered at length.

We next come to the question of just how to handle the calf in order to achieve the very best results. Opinions differ regarding the advisability of allowing the new-born calf to remain with its dam for several days, some contending forcibly that a cow should be allowed to suckle her calf, while others advocate its immediate removal as soon as it has been licked clean. It would seem that the point of view depends largely upon what it is desired to accomplish. If the idea is to give the calf every possible opportunity without regard to possible or probable impairment of the cow's milking facilities, it might be well to have it with its dam at least until it has taken all the colostrum, or first milk, and her flow has become normal or "good." The claims put forward in favor and defence of this method lay great stress upon the benefit to the calf in being able to obtain milk often and in small quantities and at the proper temperature.

They also include the beneficial effect supposed to be exerted upon a caked or badly swollen udder by the natural massaging and butting of the part incidental to the act of sucking. It has always seemed to me, however, more advisable to remove the calf immediately after it is dropped or at least as soon as the dam has had an opportunity of licking it. We follow this method at Auray Farms for the following reasons: The cow invariably does better because she has no time to become attached to her calf and consequently does not miss it. Then again both cow and calf can more easily be cleaned up and disinfected. If the udder is badly caked we do not leave its treatment to the doubtful and uncertain ministrations of a day old calf but set to work with hot applications of a saturated solution of epsom salts, later followed by a half hour's hand massaging with a special preparation, the basis of which is common vaseline. The cow is better off because of being milked absolutely dry three times daily, which stimulates instead of retards her increasing milk flow, and the calf loses nothing because he receives first her colostrum in just the right quantity and at proper intervals, and later her own milk and is at no time in danger from over feeding. Beyond doubt the calf

THEY HAVE THE CLASS

We offer two grandly bred bull calves of outstanding individuality.

No. 1. Born Jan. 2, 1914.
Sire—Son of a 29.63-lb. cow.
Dam has—Butter 7 days .... 28.071 lb. Milk .... 656.6 lb.
Butter 30 days ...115.05 lb. Milk.....2742.3 lb.
Milk one day 98.3 lb.

No. 2. Born Dec. 29, 1913.
Sire—Grandson of King of the Pontiacs, out of a 20.43-lb. two-year-old granddaughter of De Kol 2d.
Dam has—Butter 7 days ... 23.263 lb. Milk .... 547.4 lb.
Butter 30 days.....96.466 lb. Milk ....2247.9 lb.
She a daughter of Lord Netherland De Kol (121 A. R. O. daughters).

These calves are choice in every respect and the price is very reasonable. Don't pay until you receive the calf. We can help you make money.

E. C. BRILL Stewartsville, N. J.

IT IS CLEAR SAILING

if you fall in line with Sir Segis Korndyke Walker No. 59712.

Ten of his two-year-old daughters have freshened and have an average of 17.39 lbs. of butter in seven days. This average includes two heifers that freshened at seven months and one yearling. We have thirty-five more daughters that have not freshened, which are very promising and fine individuals. His sons are good ones, but few in number. Take this opportunity and have one sent to you subject to approval. If not as represented, return at our expense.
Write for pedigree and description.

F. C. & K. A. OVERTON

ADAMS, N. Y.

THE BLOOMINGDALE HERD SIRES

Johanna Rue 3d's Lad, Hengerveld De Kol, and King Fayne Segis from a splendid succession of sires. Our herd consists almost entirely of their descendants.
At present we have in service:
Prince Hengerveld Fayne, No. 77461.
He was by King Fayne Segis and from Princess Hengerveld De Kol, (33.61 lbs.), who was by Hengerveld De Kol and from a 23-lb. daughter of Johanna Rue 3d's Lad. The records of his dam and sire's dam average 34.59 lb.
Beauty Walker Pietertje Prince, No. 7421.
His sire was from a 32-lb. cow and by the best son of Beauty Pietertje (30.51 lb.), the best daughter of the foundation cow, Prilly.
His dam, Marion Walker Pietertje (31.63 lb.), is the only 30-lb. cow in the world whose dam and both grandams are all 30-lb. cows.
His six nearest dams (all 30-lb. cows) have records averaging 31.65 lb.
In the past the Bloomingdale Sires have made good. We are content to base our future reputation on our present sires.
If you want to breed the money-making kind, secure a bull bred in the Bloomingdale lines.

Jacob Reger, Supt. **Address** **A. A. CORTELYOU, Prop.**
Belle Mead, N.J. **Somerville, N.J.**

learns to drink from a pail more readily when it has never drawn milk in the natural way than when it has been allowed to suckle the dam ten or a dozen times.

The greatest menace to successful calf rearing is scouring and there are two distinct forms of scours. The first and most dreaded, because the hardest to overcome, is known as calf cholera or white scous. It is a germ disease, infectious and often fatal. It is sometimes contracted from the dam if the disease is prevalent in the herd (another excellent reason for removing the calf to clean and sanitary quarters as soon as dropped), and also from unsanitary conditions and neglecting to thoroughly disinfect the navel at birth. The other form is not infectious and is due merely to improper feeding or over feeding of unclean or too rich milk or lack of proper care. Here we have still another excellent reason for removing the newborn calf at once. There is little use of stating a condition without suggesting a remedy. Well, the best remedy is prevention, spelled with a capital P, by means of rigid sanitation, and the liberal and constant use of carbolic acid or a similar disinfectant. People claim they have no time. Make time—it always pays to be clean.

Bear in mind that calves surviving a severe attack of scours receive an awful setback and seldom if ever mature as they might have done had they not been afflicted with this dread disease. The great thing in calf rearing is to keep them constantly growing from the start without a single check . Some will of course develop faster and more satisfactorily than others, but improvement should be continuous. Therefore "an ounce of prevention is worth a pound of cure." Four drops of Creolin, which may be procured at any drug store, added to each quart of milk fed, has always effectively prevented scours in our calves. I wish to take occasion to mention here that I am indebted to Dr. Whitfield Gray, of Newton, N. J., my very good friend and one of our State veterinarians, for many valuable suggestions on this and kindred subjects. He has given me lots of good advice which I have followed with marked success and I feel indebted to him for much that I have learned about the business.

I think about nine-tenths of the calf troubles, outside of those arising from carelessness in the way of making abrupt changes in the quantity, temperature and regularity of the feed and uncleanliness in the matter of feeding utensils, come from overfeeding. Make all changes very gradually and never over feed. Many a promis-

ing calf has been "killed by kindness" and a natural desire on the feeder's part to help it along too fast. Successful calf rearing, as well as successful dairy feeding, lies largely with the individual feeder. Many make the mistake of adding grain or feed, such as middlings to the milk before feeding. This I am convinced is a mistake in the case of a dairy calf, though I should unhesitatingly advocate it when raising veals. A little blood meal (dried blood) may effectively be added to the milk but nothing else. Feed all grain separately. We have tried several of the substitutes for milk, calf meals, etc., but while others may have obtained satisfactory results, we never had much success with any of them.

Perhaps the best way of illustrating my ideas on calf feeding and rearing from birth to weaning will be to give a short synopsis of the methods employed at Auray Farms. The amount of milk allowed a new-born calf varies, and depends largely upon size and development. On the average we begin with from six to eight pounds of whole milk three times daily, this amount being very gradually increased to from ten to twelve pounds, the rate of increase depending upon the strength and thriftiness of the calf. We never feed more than sixteen pounds. When about four weeks old a little water is added and later at about eight weeks the amount of water has been increased and the amount of milk is then gradually decreased, because by this time a healthy calf should be consuming a fair quantity of grain and roughage. Many feeders lay great stress upon always giving liquid feed at a certain fixed temperature. We do this for the first week but though our method may be criticised, we hold that the calf is better off later on, all things considered, to take its milk at the ordinary temperature of its quarters, and we gradually accustom ours to do so. Another feature, open possibly to criticism, is this: After about the first ten days, except in the rare case of a puny or backward calf, we reduce the feedings to twice daily. While we do not wish to particularly advocate either of these methods we may say that they have always worked well with us and they certainly save considerable labor and unnecessary trouble.

We do not believe in pampering young stock, especially if they are to become good dairy animals. Too much fat, while presenting a pleasing exterior to the eye, is detrimental and most undesirable. Let the young ones rough it a bit and become rough and vigorous. An overfat yearling is liable not to breed and a young calf fed

Fairview Farms

SIRES IN SERVICE:

King Korndyke Maid who was by Pontiac Korndyke and from Pontiac Kornkyke Maid (33.76 lb.)

Maplecrest De Kol Paul—a son of Friend Hengerveld De Kol Butter Boy, from a 30-lb. 4-yr-old daughter of Pontiac Aaggie Korndyke.

No other herd has in service two 30-lb. bulls by sires of the quality of these.

Write us your wants.

R. T. Eastman, Prop., Littleton, N. H.

MORE THAN A 36-lb. BULL

There are but a few bulls whose two nearest dams average over 36 lb., and where can you find a single one that equals this?

A son of the $15,000 son of the 44-lb. cow, and Elzevere Barnum De Kol, one of the heaviest producers and choicest individuals, as well as one of the greatest transmitting cows of the breed.

As a 4-yr-old she made records of 29.09 lb. butter, 579.1 lb. milk in seven days—115 23 lb butter, 2294.3 lb. milk in thirty days, averaging 4.02% fat for both periods. She is a show cow of the first order, perhaps the best in my herd. She now has six A. R. O. daughters, including two above 26 lb., one 22 lb., and a 20-lb. junior 2-yr old. She also has one good A. R. O. son. Her second son is now in service in my herd, and will be given every opportunity to make a reputation.

King Pontiac Barnum De Kol was born April 13, 1914, and, as might be expected from his ancestry, is a beautiful individual, of exceptional promise—seven-eighths white.

The records of his dam and sire's dam average:

Butter 7 days 36.63 lb. Butter 30 days 143.38 lb.

There are not enough of this kind to go around; so you will have to speak quick, and be sure to mention the *World* He will bring wealth to any community to which he may go.

QUENTIN McADAM, BROTHERTOWN FARMS

23 SOUTH STREET, UTICA, N. Y.

26-lb. BULL CALF

Born Dec. 5—9-10 white. Sire, Inka Princess Mutual De Kol Son. Dam's record, 33.25 lb. butter, 711.9 lb. milk. Dam, Maple Ledge Clothilde Korndyke (18.83 lb. butter, 421 lb. milk as a junior 3-yr-old). Sire, the 37.68-lb. bull, Fairview Korndyke Lad. 8 dams of this calf average 26.95 lb. butter. A dandy individual, guaranteed to please, or your money refunded. Price $150.00 f. o. b. cars.

MARBLE VALLEY STOCK FARM R. F. Mead West Rutland, Vt.

VALLEY VIEW STOCK FARM

Valley View Stock Farm offers for sale 6 Heifers from 2 to 6 months old; also 1 bull 8 months old. All from A. R. O. dams. Sire 31 lb. grandson of King Segis.

For prices write

S. B. TAYLOR, CANASTOTA, N. Y., R. D. 1

exclusively on whole or skim milk to an advanced age, receiving large quantities daily and deriving all its sustenance from this source, will not we think begin early enough to learn to consume the large amounts of roughage necessary to enlarge its paunch properly and develop its utmost capacity. The idea is to finally produce an animal capable of consuming and making profitable use of great quantities of feed and roughage and I think that we cannot begin too early.

So we first take care to keep a calf growing continuously and find that in the case of a big rugged individual we can generally entirely dispense with milk at between four and five months of age, as the animal is then making a satisfactory daily improvement on its allowance of hay, ensilage and grain. We recently shipped a ten months' old bull weighing 900 pounds that had not received a drop of milk after three months of age. This however, is exceptional.

At about ten days of age hay, preferably alfalfa or clover if you have it, is placed in the calf manger and a mixture consisting of equal parts of bran, crushed oats and cracked corn, in the feed box. There is no danger of the calf consuming too much at first —later when the milk is discontinued, a regular ration, by weight of grain and ensilage is adopted, hay being supplied ad libitum and fresh water offered at regular intervals. We never feed more than each animal will clean up readily.

Our calves are quartered separately in small box stalls or pens, but this feature while desirable is not absolutely essential to successful calf rearing by any means. If several are quartered together, however, care should be taken that they do not learn to suck each other's ears and muzzles after feeding and they should always be fed individually—never from a general receptacle, and then tied up for a time after each feeding.

In conclusion I wish to say a word upon a much discussed question about which there seems to be a vast difference of opinion. I refer to the proper flooring of calf pens and box stalls generally. Some advocate plank, others cement and still others patent compositions such as cork, brick, etc. Plank may be discarded at once as absolutely unclean and unsanitary. We tried concrete and it proved sanitary enough but cold and hard and impractical if animals were to be kept in any but the filthiest condition, because we found it well nigh impossible to keep any sort of bedding under them, although we tried all sorts. I never tried any of the patent floorings—doubtless they are all their makers claim for them. At the time of constructing our calf barn I had my choice of any desirable material and finally decided to use just plain earth —and we still use it in preference to anything else. This idea has been often criticised and I do not advocate or defend but simply state it. We use white pine shavings for bedding (sawdust is equally good but less convenient and attractive) and twice daily all pens and box stalls and the floors and surrounding woodwork are sprinkled with a strong solution of crude carbolic acid, as effective and harmless a disinfectant as any, and costing less than 50 cents a gallon. It may be used in solutions varying in strength from 2 per cent. to 20 per cent. In addition the earth of the floor is removed to a depth of several inches at frequent intervals and fresh earth substituted.

So we come to the conclusion that the most important factors of successful and profitable calf rearing are cleanliness, regularity and sanitary condition. Go in strong for carbolic—put it under and even into your animals (a cow may safely be given a spoonful of pure carbolic acid in a bran mash at any time) and don't try to be saving with it. Use it everywhere and use lots of it. A world renowned brand of soap was once extensively advertised in this fashion;

"Its cost is little—its use a fine habit." Well the same is true of carbolic acid and disinfectants in general. Barring accidents any intelligent and progressive dairy farmer can rear calves properly. It is not a great art known to but a few favored experts. But as "anything that is worth doing at all is worth doing well," he may better save his time and trouble and rear none at all than to rear poor specimens that will never amount to anything but inferior cows, unfit for breeding purposes if the herd is to be graded up and firmly established upon a profitable basis.—Sussex Register.

HEIFERS FOR SALE

We have some very nice 2 and 3-year-olds to sell. Price $200.00 to $250.00. Also bull calves at Farmers' prices, $20.00 and up, some grandsons of King of the Pontiacs. Will sell cheap.

H. PERKINS & SON, RED CREEK, N. Y.

JENNINGHURST STOCK FARM

TOWANDA, PA.

Home of **RAG APPLE KORNDYKE** the greatest son of Pontiac Korndyke, offers a few choice bull calves.

W. W. JENNINGS, Towanda Pa.

SOLD

The bull advertised last week is sold—but here are some others that may be just what you have been looking for. They are certainly of high quality —and these prices contemplate quick sales.

1. King Lunde Pietertje Pontiac No. 121630. Born Oct. 8, 1911. Sire: King Pontiac Pietertje No. 56609, a son of **King of the Pontiacs**, from a 25 lb. 3-yr-old.
   Dam: Netherland Polly No. 110014. (Untested as yet, but a great producer.)
   Price $175.00.
2. Segis Korndyke De Kol Pietertje No. 121118. Born Nov. 19, 1912. Sired by a son of the noted 37-lb. sire, King Segis De Kol Korndyke, and from the untested cow, De Kol Pietertje Pride 2d Daisy 127946. Price $75.00.
3. A son of the same cow as No. 2. Sired by Prince Korndyke Pontiac, my herd sire, a 33-lb. son of Pontiac Korndyke. This one was born Dec. 29, 1913. Price $100.00.

Here are grandsons of King of the Pontiacs, King Segis De Kol Korn dyke and Pontiac Korndyke. Take your choice, but remember that they will go quickly.

HUGH J. DAVIS

MAPLE RIDGE HERD, BROADALBIN, N.Y.

THE STANLEY ENGRAVING CO.,
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Half tones, 3x4, at the low price of $1.50. Cuts that will run. Reference, this paper. Satisfaction guaranteed.

Library Bldg., Tioga St., Ithaca, N.Y.

ON YOUR LAST CUTS DID THE ENGRAVER PAINT OFF THE HORNS OF THE BULL AND NOT KNOW IT?

If you have had trouble in getting good cuts of your Holsteins send them to me and tell me in cow language what you want to show and I will make the plates the way you want them for I have owned a few Holsteins myself.

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ONONDAGA PHOTO-ENGRAVERS, Inc.
220 West Onondaga Street
Syracuse, N. Y.

We make cuts for the Holstein-Friesian World.

GRAND VIEW HERD

A BUSINESS HERD THAT IS MAKING GOOD

First we used Veeman Butter Boy—a son of De Kol 2d's Butter Boy 3d. One of his 4 yr-old daughters has just completed a 30-lb. record. Her other daughters look just as good.

Our next sire was Count Pontiac, by Sir Korndyke Pontiac Artis, and from a 29.88-lb. 4-yr-old daughter of Sir Veeman Hengerveld.

Our Present Herd Sire is SPRING FARM KING AGATHA, the only sire in service whose three nearest dams average over 35 lb. This includes a 3-yr old and a 4-yr old.

Don't you want some of this combination?

WATKINS BROS., Camden, N. Y.

KING LUNDE PONTIAC KORNDYKE

The Greatest Young Sire of the Breed

The ONLY son of King of the Pontiacs from a dam with a semi-official year record of 1090.91 lbs butter and 26192.7 lbs milk (over 13 tons). Nearly 102 lbs milk per day for 100 days.

Send for our new printed matter. It will give full description of him, also description and prices of some of the choice, richly bred, heavy producing, A. R. O. cows and heifers, we are offering, in calf to him.

We can offer a few of his sons from high record dams.

A visit to our farms will convince you of the superior merits of the Greenwood Herd and of its wonderful herd sire, KING LUNDE PONTIAC KORNDYKE.

E. H. KNAPP & SON - - - Fabius, N. Y.

Future Candidates For Championship Honors

We offer two daughters of our senior herd sire, Prince Segis Korndyke 7th, 32005. They are beautiful individuals and although only eight and nine months old average close to 700 lb. They have breeding and individuality, and also have the size and constitution which make them bargains at our price. Address

R. C. WILSON & SON

St. Lawrence Valley Farm **Constable, New York**

DO YOU NEED A SERVICE BULL?

We offer one Morsefield King Colantha, born June 12, 1913, a very straight, handsome individual, about evenly marked. He is a son of the well bred young sire, King of The Butter Kings 4th. Dam, Johanna Shadeland Colantha, A. R. O. at three years, 4 months:-

Butter ..... 20.53 lbs.
Milk ..... 460.10 lbs.

You cannot afford to use an inferior bull under any circumstances, especially when one of this quality can be bought for only a little higher price.

Morsefield Herd

FRED E. WELLS .·. Syracuse, N. Y.

THE TRAVERSE HERD

Bull calves for sale from Admiral Walker Colantha, whose four nearest dams average, butter 7 days, 32.83 lbs., 30 days, 131.85 lbs., and from Traverse Belle Lad, who is from a 30.115-lb. daughter of Pontiac Butter Boy.

Fifty-two A. R. O. cows in the herd, most of them daughters or granddaughters of Pontiac Butter Boy or Homestead Hengerveld Crown De Kol.

Write for pedigrees and prices. (tf.)

TRAVERSE CITY STATE HOSPITAL
Traverse City, Michigan

Alfalfa Hay

COLORADO IRRIGATED.

We ship only high-class hay.

GEO. R. WILSON, Lamar, Colorado.

27-LB. SON OF PONTIAC KORNDYKE

Sir Beets Korndyke No. 91212, is our herd sire. We offer several of our older cows in calf to him for less than their next calves will be worth.

Here is your chance to raise a high-class herd.

Address

W. B. DODDS & SON
No. Hero, Vt.

RIVERSIDE STOCK FARM

Offers Holstein-Friesian bull born Nov. 18, 1913—Sire, Aaggie Cornucopia Johanna Lad 7th, a 32-lb. bull. Dam, a 17.50 2-yr-old daughter of King Hengerveld Segis. A fine individual, nicely marked. Price $100.00.

A. W. BROWN & SONS
W. Winfield, N. Y.

Maplehurst Farms

Herd Sires—

King Pontiac Canary, a son of King of the Pontiacs, from a 26-lb. daughter of Canary Mercedes Alban.

King Segis Pontiac Canary, a son of King Segis Pontiac, from a 30-lb. daughter of Canary Mercedes Alban.

The combination of these sires with our high record daughters of Lilith Pauline De Kol's Count, and other noted sires, cannot fail to get results.

Lamb & Langworthy

EAST HAMILTON, N. Y.

LAKESIDE HERD

Service Bulls, of the King of the Pontiacs, Model Family, Pontiac Korndyke, King of the Butter Kings breeding, as fine as can be seen in any stable in America.

Write for particulars, stating as nearly as possible what you prefer

E. A. POWELL **904 W. Genesee St., Syracuse, N. Y.**

Grandsons of **PONTIAC KORNDYKE.** From one of his best sons **Sir Pontiac Roxie Korndyke** who carries over 50% same blood as **King of The Pontiacs.** Calves are from A. R. O. dams.

PEACEFUL VALLEY FARM

Oxford Depot .·. Orange County .·. New York

Baled Shavings for Stable Bedding

Cheaper than Straw. A necessity in sanitary dairies. Best absorbent. Destroy odors. Improve manure. Write for carload price, delivered.

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Low Prices

Prompt Shipment

For Exceptional Bulls with the Greatest number of 30-lb. ancestors, address

C. S. AVERILL,

The Bancroft, Worcester, Mass.

HERE THEY ARE

Eight young bulls from three to six months old, all sired by Willowbridge Butter Boy De Kol 2d, 86142. They are nice ones and are priced to sell.

Herd not tuberculin tested, we have rugged healthy cattle.

O. L. IVES

GREENVIEW HERD **GUILFORD, N. Y.**

Lacona Breeders

Henry Stevens & Son—ad. on back cover page.

BROOKDALE HERD—Offers a bull calf born March 26, 1914. Light in color, and a very fine individual. Sire, a 25-lb. son of King Pontiac Artis, who was by King of the Pontiacs, and from a 31-lb. dam. Dam was by Woodcrest Aaggie Jewel Son, whose dam was former champion 2-yr-old. Grandam by Korndyke Abbekerk—a ¾ brother to King of the Pontiacs. Great grandam by King Segis. He is priced to sell quick.

J. D. Hagan, Mannsville, N. Y.

GRANDSON OF KING OF THE PONTIACS—From a 15-lb. 3-yr-old. More black than white. Price $40.00 with all papers. Also a bull calf born Feb. 21, 1914 from an 18-lb. cow. She gave 65 lb. milk in a day. Nicely marked. Price $25.00 with all papers. These prices mean an immediate sale.

D. J. Hollis, Lacona, N.Y.

BELLEVUE HERD—Is headed by King Pontiac Artis Prilly, who was by a son of King of the Pontiacs, and the wonderful prize winner, Pontiac Artis (31.71 lb. in 7 days, 1076.91 lb. in a year), and from a great producing daughter of King Prilly, who is a son of Prilly—the "Queen of the Breed." This combination is producing a splendid lot of heifers that will be heard from.

H. A. Prescott, Prop., Lacona, N.Y.

WE STILL HAVE THREE CHOICE yearlings, two by a 21-lb. sire; the other by a 29.86-lb. son of De Kol 2d's Butter Boy 3d. Also a few cows.

R. D. Reynolds, Lacona, N.Y.

WHEAT HILL HERD—Headed by Pleasant Hill Pontiac Veeman Wayne—one of the best bred young sires of the breed. When in need of good cattle come to Lacona.

W. J. Snyder, Lacona, N. Y.

A bunch of Big Growthy Heifers, due next fall—extra promising individuals, finely bred, in calf by a good bull.

B. E. MEAD, Lacona, N.Y.

A 22-LB. BULL $75.

Dam gave over 70 lb. milk per day, and over 22 lb. butter in 7 days. Sire—a well bred son of the $2,000 bull, Pontiac Korndyke Hengerveld. Nicely marked, and a very handsome growthy calf—born Apr. 9, 1914. Address

UTILITY HERD, Lacona, N.Y.

THE $15,000 BULL

The highest priced animal of the breed. **We sold him.** We have others that we will sell for less money.

COLVIN & DESHANE, Richland, N.Y.

SON OF A 20-LB. 4-YR-OLD, $40.00—Sire's two nearest dams average 27.8-lb. Strong in Korndyke breeding. Calf is light in color, and a very promising individual. Come to Lacona for good Holsteins.

PINE RIDGE HERD,

A. T. Blount **Lacona, N. Y.**

FAIRVIEW FARMS HERD

IN talking about great bulls, do you ever stop and think what a great bull really is? Did you ever study the breeding of **Rag Apple Korndyke 8th No. 73416**—the strongest bred Korndyke bull in the world. His dam, **Pontiac Lady Korndyke** (38.03 lbs. in 7 days and 156.92 lbs. in 30 days, both World's records when made) is a 75% daughter of **Pontiac Korndyke** out of **Lady Korndyke Pauline De Kol** (29.14 lbs. in 7 days and 115 lbs. in 30 days) also a daughter of **Pontiac Korndyke. Rag Apple Korndyke 8th** is sired by **Rag Apple Korndyke,** a son of **Pontiac Korndyke,** out of **Pontiac Rag Apple** (31.62 lbs. in 7 days) and a full sister to **Pontiac Clothilde De Kol 2d** (37.21 lbs. in 7 days). **Rag Apple Korndyke 8th,** therefore, traces four times direct to **Pontiac Korndyke,** and carries 75% of the blood of this greatest of all sires of the past.

Come and see Rag Apple Korndyke 8th and his splendid sons and daughters at Fairview.

E. H. DOLLAR, Heuvelton, N. Y.

THE GREAT BULL—Lewis Prilly Rouble Hartog 2d—Son of Addie De Kol Hartog

Of the four families of three generations of 30-pound cows,

Three Families are Produced by the Animals of His Four Generation Pedigree.

DAMS	DAUGHTERS	GRANDDAUGHTERS
Abby Hartog Clothilde 605.9 milk, 31.39 butter	Addie De Kol Hartog at 4 y. 1 mo. 518.7 milk, 30.50 butter	Addie De Kol Hartog 2d at 3 y. 640 milk, 30.68 butter
Buttercup Clothilde Pietertje 576.7 milk, 32.92 butter	Mary Walker Pietertje 603.5 milk, 31.81 butter	Marion Walker Pietertje 560.7 milk, 31.63 butter
Beauty Pietertje 518.8 milk, 30.51 butter	Lillian Walker Pietertje 611.6 milk, 30.01 butter	Ruby Walker Pietertje 30.21 butter

Average. 580.1 lbs. milk. 31.07 lbs. butter

No other bull, living or dead, combines so closely the blood of so many large producing sires and dams, (the only two animals, not in his four generation pedigree, involved in the three-fold succession of 30-pound cows, are Admiral Walker, sire of Lillian Walker Pietertje and Admiral Walker Pietertje, sire of Mary Walker Pietertje.)

See the Next Issue for the Other Great Bull, SIR PRILLY WALKER.

FOR SALE—Four young bulls. Sire, the Prilly Rouble bull. Dams, daughters of Prilly Walker.

Meadow Brook Farms, Blairstown, N. J.

JOHN C. SHARPE, Proprietor **R. L. WILLIAMS, Superintendent**

Six Nearest Dams Average 31.78 lb.

Yearling bull ready for immediate service—7-8 black. Dam a 26-lb. daughter of a 30-lb. cow. Sire a son of a 38-lb. cow.

Also a few fine heifer calves by Johanna King Segis, a $4,150.00 son of the $7,000.00 40-lb. cow. The dams all have good A. R. O. records. Send for pedigree and prices.

Bonnie View Farm

JAMES GIBSON :-: White Plains, N. Y.

We are now offering a son of Korndyke Butter Boy. The dam who has just completed a record of nearly 20 lb. with first calf, was by Pontiac Korndyke and from a 21 lb. 3-yr.-old daughter of the 34 lb. cow, Polly Posch.

The calf was born March 5, 1914 and is a beauty, more white than black.

For pedigree and price address

HARRY B. DAVIS

Davisdale Farm :-: Chester, N. Y.

....HEAVY MILKING DAIRY HERD....

23--REGISTERED HOLSTEINS--23

ON ACCOUNT OF LACK OF HELP THIS HERD WILL BE OFFERED FOR QUICK SALE AT A BARGAIN PRICE.

19 Milkers; 3 Yearling Heifers; 1 15 mos. old herd bull

Grandson of King of the Pontiacs.

Herd is now producing upwards of 500 lb. milk daily. Twenty of the females have been bred to King Lunde Pontiac Korndyke 10th (by Knapp's 30 lb. son of King of the Pontiacs) whose dam is a 27 lb. daughter of a 25-lb. dam and granddaughter of the 34.71-lb. cow, Betta Lyons Netherland. This bull is a splendid individual and will be sold with the herd or alone, as preferred.

Every animal offered subject to tuberculin test.

BOLT & HUEY : : : Watkins, N. Y.

2 miles from N. Y. C. depot. Will meet visitors upon notification.

I Want the 5 Best Bred Heifers

from A. R. O. dams that $1000 will buy; due to freshen with first calves May, June or early fall. Will be given records when fresh.

Herd headed by 32-lb. bull, Spring Farm King Pontiac Mercedes 104884. Bull calves for sale carrying blood of Colantha 4th's Johanna and K. P. Pontiac Lass.

C. P. BARKER, CHIPPEWA FALLS, WIS

R. F. Hildebrand

The Live Stock Photographer

Union Stock Yards, Chicago

RODGERDALE HOLSTEINS

FOR SALE—1 yearling bull from a 19.30 lb. dam; and bull calves sired by Sir Johanna Lady Korndyke No. 84720, his dam Pontiac Lady Korndyke 38.03. For price, etc., address

M. J. RODGER,
Hammond, N.Y.

HILL SIDE STOCK FARM

Offers for sale Jane America De Kol Burke No. 107068 and her bull calf, one of the best daughters of America De Kol Burke, granddaughter of De Kol Burke. She has A. R. O. record 2 yr. 17 lb.; 5 yr. 22.62-lb. butter, 7 days $500.00 takes them. Also 2 two-yr.-old heifers and bull calves at moderate prices.

STANTON OSTERHOUT

Cobleskill R. D. 1. N. Y.

WATER IN THE STABLE A NECESSITY- - -

THE "BUCKLEY" Device

for watering stock is the leader. Why not use the best? Write to the manufacturers for a descriptive circular.

POUGHKEEPSIE FOUNDRY & MACHINE CO.
Poughkeepsie, N. Y.

Milford Meadows Stock Farm

HOLSTEIN-FRIESIANS

Favill Grove, Lake Mills, Wis.

Breeders of staple cattle from high producing families. Developers under normal conditions. This year's crop of bull calves from A. R. O. dams, sired by 29.55 lb. bull, he sired by 34.96 lb. bull. Descriptions of calves and dams sent on application to business office

122 So. Michigan Boulevard, Chicago

H. B FAVILL, Prop. H. W. FAVILL, Manager

"Of the Breeders By the Breeders For the Breeders"

Handy Herd Registers (looseleaf)
Nothing better in its line.
Pocket Herd Guides
The owner and herdsman's friend.
Official Record Test Books
The best on the market
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Pedigrees and Catalogs compiled.
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LIVERPOOL SALE AND PEDIGREE CO.
Liverpool, N. Y

SPRING FARM HERD

The home of the $15,000 bull, Spring Farm Pontiac Cornucopia 77172, and his full brother, King Korndyke Pontiac Lass No. 115585.

I now offer

A Son of King Korndyke Pontiac Lass

from a 21.7-lb. junior 2-yr-old daughter of the great Spring Farm King Pontiac, whose first four daughters to freshen average over 20 lb. as junior 2-yr-olds. The six nearest dams of this calf average 33.56 lb., counting his own dam with 21.70; counting her out, the next five average 36.08 lb. The four line dams on the dam's side have records as follows: 21.70 junior 2-yr-old, 29.51 junior 4-yr-old, 34.89 full age, 21.00 lb. as a 12-yr-old never tested before.

Where can you beat it? Address

FRANCIS M. JONES, Clinton, Oneida Co., N.Y.

Granite State Herd offers
SPRING FARM KING PONTIAC 6th's

first son. Born January 19, 1914, a splendid individual, very handsome, well built and marked. Average 4 nearest dams, 29.11 lbs. butter. His sire has a 34-lb. dam, a 37-lb grandam and a 44⅞ lb. sister.

His dam has nearly 21 lbs. at 3 years. and 76 lbs. milk in one day. She is developing into a wonderful cow. Her dam has a hot weather record of 23.72 lbs., and 98 lbs. milk in one day. A daughter has 101.8 lbs. milk in one day. Write for price and pedigree.

JOHN E. POTTER, Conway, N. H.

STOP AND TAKE NOTICE Bull born Jan. 19, 1914—⅞ white, straight, very stylish, cannot help but please you.

Sire—WOODCREST AAGGIE LAD
First daughter just tested jr. 2—better than 16 lbs. in 7 days, milked 60 lb. per day. More to follow.

Dam—LIEUWKJE PAULINE DE KOL WAYNE 2d
3 yrs. butter 25.30
Full sisters—Lieuwkje Lynfeld Pleasant Valley Kate, 36.15; Lieuwkje Pauline De Kol Wayne 3d, 2 yrs. 2 mos. butter 22.98.

HOMESTEAD GIRL DE KOL SARCASTIC LAD
103 A. R. O. daughters
WOODCREST AAGGIE TEHEE
4 yrs.—Milk 7 days 645.3. Butter 24.53.
Milk 30 days 2619.3. Butter 100.08.

SIR WOODCREST KORNDYKE KATE DE KOL
15 A. R. O. daughters, average better than 25 lb.
LIEUWKJE PAULINE DE KOL WAYNE
Butter 36.47
Her sire, a full brother to:
Aaggie Cornucopia Pauline 24.32

Also a few heifer calves, sired by better than 30-lb. sires, fine individuals. A. R. OWEN, Maplewood Farm, Goshen, N.Y.

Seek-No-Further Herd Holsteins

Headed by and bred to a 32-lb. grandson of King of the Pontiacs.

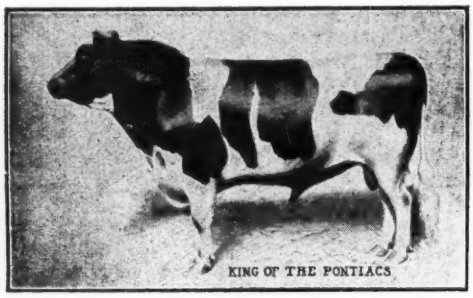
Offer one of his sons for sale from a 17-lb. jr. 3-yr-old granddaughter of Johanna Rue 3d's Lad. Price $100.00 for quick sale.

H. A. WARD, Prop. GREGORY, MICH.

King of The Pontiacs

Is Steadily and surely climbing to his destined position at the head of the A. R. O. list of sires. Today he has 114 A. R. O. daughters.

Altho nearly all his daughters are under full age he has **twenty-eight** 20 lb. two-year-old daughters; 64 daughters averaging 24.29 lbs. butter in seven days; 23 over 25 lb. butter in seven days; 11 daughters averaging over 30 lbs **Four** above 30 lbs., three at second calving. He is sire of the only 44 lb. cow. He has 109 daughters averaging 21.07 lbs. Five others in test with records uncompleted. Two three-year-old granddaughters over 31 lbs. 55 sons with 195 A. R. O. daughters. He is the only living sire with over 100 A. R. O daughters He is the only sire with 100 A. R. O daughters whose sire also has 100 A. R. O. daughters. He is the only sire who, together with his sire and grandsire, each and all have 100 or more A. R. O. daughters.


KING OF THE PONTIACS

Moral: Place either a son or grandson of this great transmitting bull at the head of your herd and so infuse into it the greatest producing blood of the breed.

You can get such young bulls from

STEVENS BROTHERS COMPANY Liverpool, N.Y.

REST EASY HERD

HOME OF THE WORLD'S RECORD SON OF KING OF THE PONTIACS

King Pontiac Mayflower No. 105149, represents H. M. Dunham's judgment of what constitutes a desirable son of King of the Pontiacs, and Mr. Dunham's opinion on this point ought to carry weight, considering that for several years he has had charge of the daughters of King of the Pontiacs that have been making history for the breed.

The dam of King Pontiac Mayflower is the former World's Champion; Mayflower Lilith Pauline, with records at 3½ years of **510.9 lb. milk, 31.14 lb. butter in 7 days, 2185.6 milk, 128.13 lb. butter in 30 days.** Average test for 30 days **4.69 per cent fat.**

The owners announce that a few more approved cows will be received for service to King Pontiac Mayflower at $150 to insure a live calf.

A few young bulls are offered sired by Spring Farm King Pontiac, a brother to the 44-lb. cow. Two of these are from a 30-lb. daughter of Tidy Abbekerk Prince. Address (mentioning the World.)

H. M. DUNHAM & SONS, Marcellus, N. Y.

Finderne Stock Farms

is the birth place and home of the best bred bull of the age. To think his dam is the first 40-lb. cow "Valdessa Scott 2d" No. 72311, and his sire's dam is the 44-lb. Champion of the World, "K. P. Pontiac Lass," thereby giving this youngster who was born May 12th an average for dam and sire's dam of 42 lbs. of butter in 7 days, and 167 lbs. in 30 days.

This is the place for breeding. We have only a few young bulls left.

B. MEYER, Finderne, N. J.

Maplemont Farm

offers a young bull born Jan. 17, 1914. Sire, Pietje Alcartra Fayne, whose four nearest dams average butter 7 days, 32.20 lb.; butter 30 days, 124.11 lbs. Her dam sold for $3000 at the 1914 Sale. His yearling son topped the New England Breeders Sale. Dam, a 25.82-lb. five-year-old. One of our best. Also three young A. R. O. cows, bred to Pietje Alcartra Fayne.

John W. Prentiss & Son

ALSTEAD, N. H.

KING SEGIS PATENT LOCK

Ear Tags, Bull Staffs & Bull Rings. Description and prices of all sent on application, including samples of Ear Tags. 250,000 of these Tags have been sold without adverse criticism.

500 of these Bull Staffs are in use by the best breeders in the business

H. A. MOYER SYRACUSE, N. Y.

Don't cut, saw or burn the horns off—breed them off. By a polled bull guaranteed to produce more than 50% of hornless calves from horned cows. The polled trait was recognized by the Holstein-Friesian Association of America in 1887, Vol. 3 Bulls.

Of 27 calves from our matings only 5 with horns; 2 out of 3 from horned dams are hornless. Bull calves from 3 to 6 months of age from A. R. O. dams, $100 up. Have shipped to Indiana, Colorado, Connecticut and Pennsylvania—every purchaser pleased. Send for catalog

GEO. E. STEVENSON & SONS, Waverly, Pa.

Chenango Valley Stock Farm

Herd headed by

PRINCE RAG APPLE KORNDYKE, No. 73415

Sire— Pontiac Korndyke.

Dam— Fairview Rag Apple Korndyke.

WHITMAN A. FOLLETT North Norwich, N.Y.

MAPLE RIDGE HERD

Has for sale a few bull calves from A. R. O. dams, sired by our senior herd bull, MAPLE RIDGE KING PONTIAC, one of the best sons of KING OF THE PONTIACS, from a daughter of De Kol 2d's Butter Boy 3d, and the 31-lb. cow, Alcartra Polkadot Ormsby, we will price these calves so that they will sell, and will be glad to send pedigrees and prices to anyone.

C. H. FITCH & SONS, Burlington Flats, N.Y.

VANDERKAMP FARMS

Holstein Bull Calves by Judge Segis Son of Famous King Segis

From A.R.O. dams. Two ready for service
Fine individuals—well marked

F. C. SOULE & SONS, SYRACUSE, N.Y.

HENGERVELD DE KOL—KORNDYKE BULL

Hengerveld De Kol Klaasje 82532, is a fine two-year-old bull, more white than black, nicely marked, richly bred. Sire —Hengerveld De Kol 3d, 46475.

7 or more A. R. O. daughters and considered the best individual son of the great Hengerveld De Kol. Dam—Klaasje Clothilde 5th, 76760.

534.3 lbs. milk, 25.97 lbs. butter in 7 days. One of the 57 A. R. O. daughters of Earl Korndyke De Kol, a brother to Pontiac Korndyke.

Price $150.

UNITED BREEDERS' ASSOCIATION, Wyalusing, Pa.

KORNDYKE IDEAL ABBEKERK, No. 124206, is our present herd sire. His dam, Jessie Pontiac Korndyke, No. 168612, has just made at 3 yrs. and 22 days 500 lbs. milk, 22.07 lbs. butter. His sire's dam used to give over 70 lbs. milk a day at two milkings on pasture.

F. B. & W. P. Sprague Smyrna, N.Y.

HOLSTEIN-FRIESIAN ADVERTISING

Buying or selling you may profit by our help in locating cattle or finding customers. A dozen years' experience enables us, with our up-to-date equipment, to give you the first hand information not to be found elsewhere: and also to handle in the most acceptable manner, livestock advertising, pedigree and catalogue work, and the management of public sales. E. M. HASTINGS, Holstein Advertising, Lacona, N. Y.

FOR THE BOYS AND GIRLS

who are ambitious to earn money, we have an attractive proposition. A postal card request will bring you our offer.

WANTED—Am in want of a few extra good show animals for the Fall Fairs. Let me know what you have. Could also use 20 registered heifers.

C. E. Gschwind,
1452 Elm St., Youngstown, O.

FOR SALE—6 cows for $1000.00. One 2 years old with A. R. O. record; one 3 years old; four of my foundation cows, nicely bred, nice individuals and large producers, from 9 to 11 years old, three of them bred to freshen this Fall to Colantha Capitola Prince, whose dam and two nearest dams of sire average 31.86 butter in 7 days. Also a few bull calves from A. R. O. dams by the same sire.

J. G. Horner Lamson, N. Y.

$100.00 SON OF CHANGELING BUTTER BOY

Changeling Butter Boy is one of the coming sires; he already has over half a hundred A. R. O. daughters, some with records as high as 31 lb. His dam is a 29-lb. cow.

The dam of the calf is a 19.6-lb. granddaughter of Aaggie Cornucopia Johanna Lad Jr. She has never been dry.

Calf was born Oct. 27, 1913, is evenly marked, and a nice straight individual. Above price is for immediate sale.

Geo. F. Blewer Est. Newark Valley, N. Y.

Two Heifer Calves, Granddaughters of
KING OF THE PONTIACS
And a Bull Calf, a Grandson of
PONTIAC KORNDYKE

The dam of the bull has record of over 25 lb. Will sell the three for $650. This is the kind that will make you money.

Address
R. E. DAVIS
Mexico, N.Y. R. D. 4

THE BUBBLE HAS BURST

Wide-Awake Holstein Breeders of today want MILK of average Holstein Quality in large Quantities.

THE BELLEVILLE DISTRICT
CANADA

Has produced lots of 100-lb. a day milkers (official). Yearlings up to 75; 2-yr-olds, 88 to 91; 4-yr-olds to 118.6. (The only district in the world that has produced 3 generations of 700 lb. per week cows—average 740).

At Their Summer Sale (5th Annual)

Belleville, Ont., July 1, 1914

THE BELLEVILLE BREEDERS WILL OFFER

90 head of their over-production including a 106-lb. 30-lb. show cow. Several daughters of a ¾ brother to the $50,000 bull, dams by Karel Korndyke. Granddaughters of Hengerveld De Kol, Pietertje Hengerveld's Count De Kol, Belle Korndyke, Sara Jewel Hengerveld, Daisy Pauline Pietertje, May Echo Verbelle, and several other 100-lb. cows.

If you want Holsteins—High in milk, but low in price (comparatively) better plan to attend—get the catalogue anyway. It will tell.

Col. PERRY, Auctioneer

G. A. BRETHEN, Sale Mgr.
NORWOOD, Ontario, Canada.

KING MASTER, No. 117183

ONE OF THE BEST BRED HOLSTEIN BULLS ALIVE

Individually, he is considered by Breeders **"Who Know"** as one of the best; having all of the qualifications of a prize-winner and breeding backed by known transmitting ancestry.

His sire, **King of Kings,** whose only daughter to be tested has a senior two-year-old record of 23.39 lbs. butter in 7 days.

His dam, **Aaggie Pauline Sarcastic,** with a record of 36.35 of butter in 7 days, average per cent fat 4.69; and 134.95 of butter in 30 days, average per cent fat 4.29; is one of the World's Record cows. She is the highest record show cow in the world; this proving conclusively her superior excellence in every respect.

His grandsire, **Lord Netherland De Kol,** has more A. R. O. daughters and more producing daughters than any other sire, living or dead.

His grandam, **Susie Hengerveld De Kol,** with a record of 27.62 of butter in 7 days, average 5.12%; is the dam of three A. R. O. daughters; her record, when made, was the world's record. This is one of the few really great foundation cows, rich in the blood of the World's Record cows, **De Kol 2d,** 26.57 of butter and **Susie De Kol,** 25.30 of butter.

As stated by a prominent Holstein breeder: "What goes into an animal through its ancestors will come out through its descendants." Therefore, from the breeding above outlined, is it not convincing evidence that **KING MASTER** Is the **PREMIER BRED BULL?** We invite you to come to Nazareth and inspect our herd.

SERVICE, TO INSURE A LIVE CALF, $150.00

Do some of you breeders need high record young bulls to build up your herds? If so, write us. We have them.

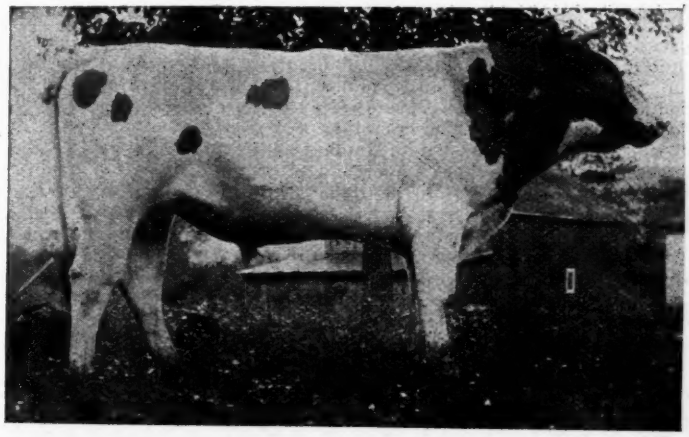
Thoroughbred and registered Berkshires for sale. Booking orders for May and June pigs, Sows $12.00, Boars $10.00.

GREEN ACRE FARMS

JOHN A. MILLER, Prop.
Nazareth, Pa.

CALVIN TOBIAS, Supt.
R. F. D. No. 3, Nazareth, Pa.

Tidy Abbekerk Prince
No. 37770



Five Thirty Pound Daughters

Produced these in less than as many months.

He is an Is-er of to-day and he will be an Is-er of the future.

He will be mated with some of the best members of the Westover and Brookside Herds.

Service fee $100 on a limited number of approved cows.

Watch our ad. It's going to change.

HENRY LATHROP & SONS
SHERBURNE, N. Y.

STEVENS BROTHERS COMPANY
LIVERPOOL, N. Y.

HOLSTEIN-FRIESIAN FACTS

THAT EVERY ONE SHOULD KNOW

Banostine Belle De Kol, the CHAMPION COW OF THE WORLD, was bred, reared and developed at Maplecrest Farm.

High-Lawn Hartog De Kol, the only cow the world has ever produced to make over 1200 pounds of butter in a year and have a daughter to do the same, was bred, reared and developed at Maplecrest Farm.

Daisy Grace De Kol, the greatest Junior four-year-old the world has ever produced, was bred, reared and developed at Maplecrest Farm.

The only three daughters of one sire each to produce over 1200 lbs. of butter in a year were bred, reared and developed at Maplecrest Farm.

Friend Hengerveld De Kol Butter Boy, the sire of all of the cows mentioned above, is now owned and in service at Maplecrest Farm.

Only fifteen of the leaders in the various Holstein-Friesian classes were reared and developed by the person who bred them. Five out of the fifteen were bred, reared and developed at Maplecrest Farm.

Maplecrest Farm has bred, reared and developed as many of the six greatest yearly record Holstein-Friesian cows as all other breeders and firms combined.

Pontiac Aaggie Korndyke, the Junior sire at Maplecrest Farm, has more 30-lb. daughters than any other living sire. Only three other sires have ever had more 30-lb. daughters than he now has. One of these was his own sire and another the sire of his dam. No other sire ever had as many 30-lb. daughters at his age.

The daughters of Pontiac Aaggie Korndyke have made greater yearly records than have the daughters of any other sire except Friend Hengerveld De Kol Butter Boy.

Euphrasia A., the great foundation cow of Maplecrest Herd, has more great cows tracing back to her all the way through females than any other cow living or dead.

At Maplecrest Farm three cows have been bred, reared and developed each of which has made more than 1200 lbs. of butter in a year. One cow to produce over 1200 pounds of butter in a years is as many as any other breeder or firm has been able to breed, rear and develop.

A few choice bull calves for sale.

THE MAPLECREST STOCK FARM COMPANY Successor to DAN DIMMICK & BRO.

Telephone Connection between Farms and Office

OFFICE AT KALAMAZOO, MICH. **FARMS AT EAST CLARIDON, OHIO**

QUEEN MILK AND BUTTER CHAMPION, No. 74653 Herd Sire

He by a bull whose sire and dam combine two of the families of three generations of 30-lb. cows. His dam is the only cow that has ever made three records that average over 32 lbs. and given 120 lbs. milk in a day with each record.

Clayton Sisson **SHERBURNE STOCK FARM** **Sherburne, N. Y.**

FOR YOUR CONSIDERATION

"A good bull is half the herd but a poor bull is the whole herd."

JOHANNA KING SEGIS 71964

is the best bull in the Northwest. He is the son of the $7,000 40-lb. cow, Johanna De Kol Van Beers. You can start right at the top of the ladder when you have a chance to use such a sire as this one. Our order book is rapidly filling but we will take a few more choice cows at service fee of $250.00 and will breed cows with 20-lb. records or better on halves.

OAK GROVE AND TWIN PINE FARMS

HOUSLET & McNUTT - - - OXFORD, WIS.

ADDRESS ALL CORRESPONDENCE TO NEAL HOUSLET, OXFORD, WIS.

EMBLAGAARD HERD

Sires in Service:

Colantha Johanna Champion 45674. The proven son of Colantha 4th's Johanna.

Emblagaard Prince 80596. A son of Segis Walker Pietertje, 27.85 lbs. at 3½ years. His sire's dam, Abby Hartog Clothilde, 31.39 lbs., and dam's dam, Ruby Walker Pietertje, 30.21 lbs., are two of the only 30-lb. cows of the breed that have produced 30-lb. daughters, that have also produced 30-lb. daughters.

EMBLAGAARD DAIRY **BIG BAY, MICHIGAN**

In A Class By Themselves

The ancestry of Kearsarge Pontiac Butter Boy is made up entirely of animals of distinctive quality, in fact, so exceptional have been the achievements of many of them, that they are really in a class by themselves. Following are a few of the good things which appear in the pedigree of Kearsarge Pontiac Butter Boy.

His sire, in addition to his splendid list of daughters, is the only bull having two sisters with year's records averaging over 29,000 lb. milk.

His dam is the only cow that has produced over 600 lb. milk in a week for four consecutive years.

His grandsire, Pontiac Butter Boy, in addition to having three 30-lb. daughters, and other good ones, is the only sire having a daughter that has produced over 1200 lb. butter and over 28,000 lb. milk in a year.

His grandsire, Creamelle De Kol Butter Boy, is the only sire to have a 4-year-old daughter that has produced over 250 lb. butter in 60 days.

His grandam is the only 780-lb. weekly milk producer to have a 750 lb. daughter. Their year's milk records average 27,935.7 lb. This is a world's record for mother and daughter, and their records for one, seven and thirty days are all world's records.

In the fourth generation we find:

Pietertje Hengerveld's Count De Kol, the only sire having thirteen daughters with one day milk records averaging over 100 lb.

De Kol 2d's Butter Boy, the only sire having twenty-two 30-lb. granddaughters, or three granddaughters with yearly milk records averaging 27,950 lb.

De Kol 2d's Butter Boy 3d, the only sire having 196 A. R. O. sons and daughters. He is also the only sire having three granddaughters with yearly records above 1200 lb.

Paul Beets De Kol, who for a long time had more A. R. O. daughters, and more great record daughters than any other sire of the breed.

Rag Apple's Clothilde Artis, the only cow having two daughters, each with two 30-lb. daughters.

Creamelle 2d's Topsy Ann, the only cow to have a 780-lb. daughter that has a 750-lb. daughter.

Kearsarge Pontiac Butter Boy himself is the only bull east of the Rocky Mountains whose two nearest dams have averaged over 110 lb. milk per day for a week.

Considered from every standpoint—individuality, milk production, butter production, and transmitting power, his breeding places him in a class by himself. The tendency of the times is right in this direction. Here is your best chance to get in a position to help supply that demand—breed your best cow or cows to Kearsarge Pontiac Butter Boy, and reap a sure reward in the years to come.

The service fee, for the present, approved cows only, is $100.00 to insure.

Hastings & Prescott

Lacona, N. Y.

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS.

April 30, 1914— 252 Cows.

Name of Cow and Owner	Lbs. Milk	Per cent. But. Fat.	Lbs. But. 80% Fat
Full Aged Class			
Belle Mercedes Lady 77702, Fred J. Karlen	721.6	4.15	29.968
Thirty-day record	2809.2	4.17	117.053
Hilldale Beets Korndyke 113463, J. A. Stanton & Son	643.6	4.15	26.737
Thirty-day record	2816.9	3.60	101.422
Toledo Belle Pauline 127288, G. L. Bartholmew	581.3	4.26	24.781
Fourteen-day record	1131.5	4.20	47.562
Clintonia 5th Fayne De Kol 111927, J. A. Stanton & Son	614.8	3.92	24.115
Thirty-day record	2488.1	3.68	91.703
White House Belle 137992, Cannon & Penrose	660.2	3.55	23.417
Miss Korndyke Grace Ormsby 122586, Jno. B. Irwin	488.8	4.66	22.778
Paula De Kol Oatka 85125, O. L. Wilkinson	581.3	3.87	22.495
Clorinda De Kol Artis 73057, A. W. Haeger	472.1	4.61	21.764
Pontiac Kate 65772, B. B. Andrews	487.2	4.44	21.611
Thirty-day record	2278.5	3.83	87.310
Dot Fayne 145908, F. H. Thompson & Son	521.3	4.09	21.344
Thirty-day record	2171.1	4.12	89.453
Veritas Palmar Clifden Aaggie 135571, Fred J. Karlen	508.1	4.14	21.051
Mamie Beets De Kol 114752, Julius Schmid	564.2	3.70	20.983
Thirty-day record	2334.0	3.56	83.038
Bertjusca Buckeye 103091, Massillon State Hospital	645.3	3.25	20.957
Daisy Clothilde Burke 86332, E. A. Whitford	571.8	3.64	20.882
Aaggie Cornucopia Pauline 2d Posch 115360, F. F. Field Holstein Co.	597.6	3.44	20.582
Hazel Concordia De Kol 90763, G. H. Plummer	592.2	3.42	20.255
Pietertje Lass 2d's Johanna De Kol 89791, A. J. Daugherity	561.3	3.58	20.116
Cornucopia Riverside Beryl 112757, A. W. Haeger	414.8	4.82	20.003
Suza Cjritje 81631, Otis Farm Co.	329.4	6.07	19.992
Mapleleaf Lady 103892, Kosier Bros.	519.0	3.85	19.977
Tirania Johanna Mechthilde 104332, Geo. E. VanHagen	452.9	4.38	19.848
Thirty-day record	1939.8	3.84	74.509
Lady Oosterbaan Beets De Kol 103919, J. T. Williams	449.9	4.39	19.784
Otsego Korndyke 123304, B. B. Andrews	518.5	3.74	19.379
Countha 6th 106230, Frank S. Ostrander	564.8	3.38	19.103
Daisy Clothilde Burke 2d 118109, E. A. Whitford	526.8	3.62	19.092
Queen Pietertje De Kol Concordia 90764, G. H. Plummer	513.2	3.69	18.965
Lady Aaggie Bos 125890, E. S. Smith	435.9	4.29	18.719
Fay Jewel Beauty De Kol 2d, 101981, James Hunter	496.8	3.74	18.565
Duck Homestead Cornucopia 120082, M. S. Nye	509.2	3.64	18.537
Thirty-day record	2154.2	3.51	75.512
Pleione Pontiac De Kol Hengerveld 119544, E. A. Whitford	409.8	4.46	18.271
Kleta 3d's De Kol 2d 111563, L. B. Adams	435.4	4.19	18.222
Lady Pell De Kol Pride 82477, Fay & Cloyes	346.3	5.23	18.125
Fraud De Kol Johanna 79273, A. J. Daugherity	602.2	3.00	18.076
Marble 2d's Aaggie Grace 83798, E. A. Whitford	474.7	3.78	17.953
Glenice Beauty's Baby 2d Lilith 122397, A. G. Ingalls	397.8	4.50	18.894
Flush's Emma De Kol 2d De Kol 2d 134283, McKay Bros.	567.3	3.11	17.620
Thirty-day record	2416.0	2.90	70.072
Mercedes Jessie Arona 91143, Frank White	455.3	3.86	17.557
Madrigal Starie De Kol Mercedes 128320, August Matthews	477.3	3.66	17.462
Christmas Aaggie De Kol 124091, Frank Du Bois	504.6	3.36	16.962
Fourteen-day record	1003.6	3.34	33.557
Pansy Nichols De Kol 100276, J. B. Gillette	535.0	3.17	16.961
Miss Benla 2d 157064, S. J. Fleming	493.1	3.41	16.826
Sunny Side Matilda 151415, Martha J. Morrisey	429.3	3.92	16.808
Nellie De Kol Brank 113757, F. G. Alderfer	483.3	3.47	16.790
Mutual Lady Jane 107615, Jesse M. Crump	438.2	3.81	16.680
Meadow Brook Daisy 109200, John C. Sharpe	423.3	3.88	16.403
Spring Brook Luna Korndyke 114048, Voss & Turner	488.0	3.35	16.352
Fourteen-day record	969.2	3.29	31.927
Oakhurst Moole Fayne Beauty 144696, B. B. Andrews	472.5	3.44	16.250
Maid of the River 109381, City of Cleveland	495.2	3.28	16.235
Johanna Abbekerk De Kol Rue 91820, Geo. E. Stevenson	505.4	3.21	16.217
Thirty-day record	2014.7	3.12	62.884
De Kol Countess Royal Daughter 98075, H. L. Allen	488.4	3.19	15.584
Annie De Kol Hartog 109030, D. C. Hostetler	442.9	3.45	15.284
Mildred Colantha 114553, W. H. Horstmann	369.0	4.01	14.795
Wietske Dairy Maid 55619, C. J. Flanagan	435.9	3.31	14.460
Wittekind Beauty 3d 112030, Hiram P. Loverin	538.3	2.62	14.099
Avilla Boon Beryl Wayne 2d 98595, John W. Jones	350.3	4.00	14.023
Ada Wayne Burke De Kol 109846, Henry Stevens & Son	365.8	3.79	13.860
Miss Madrigal Pauline 65232, August Matthews	444.4	3.11	13.834
Aaggie Maplecroft Hengerveld 105360, E. A. Whitford	426.9	3.19	13.621
Mansfield Netherland 126745, J. A. Stanton & Son	373.3	3.65	13.610
Johanna Spring Brook De Kol 99506, J. T. Williams	446.6	3.04	13.580
Josephine Ormsby 125889, E. S. Smith	374.0	3.61	13.517
Senior Four-year Class.			
Mink Posch 120339, R. E. Haeger	477.1	4.27	20.389
May Rosa 7th 136834, E. A. Whitford	585.8	3.40	19.891
Diantha Butter Boy 134179, M. H. & C. A. Nichols	600.3	3.20	19.213
Lake View Burke 120554, Voss & Turner	560.5	3.38	18.921
Fifteen-day record	1164.2	3.42	39.768
Belle of Springville Spry 2d 160862, Otis Farm Co.	543.0	3.39	18.394
Lady Jean De Kol 3d 131726, Curtis Miller, Jr.	363.2	5.03	18.277
Geneva Hengerveld Pauline 125805, Geo. E. Stevenson	599.3	2.96	17.754
Thirty-day record	2374.6	2.92	69.328
Daisy Elnora Hartog 121865, O. L. Wilkinson	536.8	3.29	17.707
Korndyke Hengerveld Clothilde 167791, J. B. Moore	581.0	3.00	17.437
Clara Inka Korndyke of Fairfields 171418, J. B. Moore	528.8	3.27	17.321
Floa Beets Walker 131862, Voss & Turner	460.7	3.57	16.454
Fifteen-day record	953.6	3.49	33.288
Princess Johanna Netherland 174425, M. T. Carrigan	557.9	2.66	14.853
Minnie Duchess Skylark Ormsby 135081, R. H. Thomas	417.6	3.52	14.717
Countess Romdell 121246, Est. Chas. P. Whitin	525.8	2.74	14.382
Johanna Hengerveld Concordia 119545, E. A. Whitford	363.1	3.86	14.027
Countess Mayzar 125596, Est. Chas. P. Whitin	427.5	3.06	13.087
Countess Poppzar 119647, Est. Chas. P. Whitin	418.6	3.10	12.989
Aaggie Grace Buttercup 2d 141296, W. E. Titus	379.9	3.13	11.904
Junior Four-year Class.			
Purity Pacha Merdu 2d 137848, J. A. Stanton & Son	461.3	5.95	27.443
Thirty-day record	2018.3	5.10	102.954
Helene Beauty 135264, Julius Schmid	465.5	4.56	21.232
Brookdale Pietje Pauline 138643, F. C. Soule & Sons	487.3	4.30	20.975
K. P. Segis Rose 142572, Stevens Brothers Co.	356.9	5.86	20.922

SIR PONTIAC VEEMAN HENGERVELD

Grandson of Pontiac Artis and Sir Veeman Hengerveld. Two nearest dams average 31.3 lbs. butter, 4.73 per cent. fat. I have young bulls ready for service. Extended pedigrees furnished.

E. M. LOWMAN
Lowman, N.Y.

SADIE VALE SIR ORMSBY 57600
(16 A. R. O. daughters)

The youngest son of Sadie Vale Concordia (30.64 lb.) heads our herd. We offer bull calves by him, and from promising young cows with records around 20 lb. at 2 years old. For pedigrees and other information address

JAMES W. FEAR
Maple Grove Stock Farm,
Holland Patent, N.Y.

26.6-lb. BULL CALF

Born Jan. 7, 1914—beautiful individual, nearly all white. Dam, a 30-lb. prospect, has a record of 22.68 lb. butter, 490.9 lb. milk. She has large udder and veins, with teats well placed. The sire is a 30-lb. bull of great merit. The price is right. We also have other good calves.

KEYSTONE FARMS, C. A. Pratt, Prop.
Le Raysville, Pa.

BULL READY FOR SERVICE

Born Nov. 20, 1911. Half brother to Lockhart Lilith, the new 30-lb 3-yr-old. Her dam and the dam of Lockhart De Kol are the only two full sisters that have each produced a 30-lb 3-yr-old. The sire is half brother to Lockhart De Kol. This bull is light in color and a fine individual. Price $300.00. If interested, write for pedigree.

LOCKHART HOLSTEIN FARM,
Eugene La Munion Solsville, N.Y.

A 31-LB. PROVEN SIRE

2 years old—sure—fine individual—nearly all white.
Guaranteed. Sire—Korndyke Pontiac Pet —a 37-lb. son of Pontiac Korndyke.
Dam—a 27.7-lb. daughter of a 28-lb. cow.
Sold only to avoid inbreeding. His heifers are very promising. Address

FRANK BACKMAN,
Valley View Farm, Weedsport, N.Y.

BULL READY FOR SERVICE FOR SALE

Sire: King Segis De Kol Korndyke 7th, whose sire is a 37-lb. bull.
Dam. An A. R. O. cow.
A fine individual, more black than white.
Price $125.00.

HARVEY GRAMPS,
Fort Plain - - - - - New York

FOR SALE—Two Registered Holstein-Friesian Bull Calves, sired by a grandson of King of the Pontiacs, and whose dams have A. R. O. records—one of 21.58 lb., and the other 18.116 lb., as a junior 3-yr.-old.
Write for prices and pedigrees.

CHAS. OHLER,
Lucas, Ohio.

SPRINGVALE STOCK FARM
"The Home of the Johannas"

If in need of a bull calf this winter do not fail to investigate the breeding of one sired by King Pieter Lyons and out of a daughter of Colantha Johanna Champion. A combination of breeding surpassed in no herd in the world.

W. J. GILLETT & SON
Rosendale, Wis.

TROUT BROOK HERD

Headed by King of the Pontiacs 4th, one of the best sons of his dad. Nothing for sale at present.

W. H. HORSTMAN, Schenectady, N.Y.

Mernan Aaggie Pearl 135020, Fred J. Karlen	474.1	4.41	20.905
Aaggie Oosterbaan 2d De Kol 133475, Medina, O.	467.0	4.25	19.840
Brookdale Pietje Bos 138647, F. C. Soule & Sons	493.4	3.91	19.294
Lady Korndyke Clothilde 142846, Quentin McAdam	404.7	4.74	19.174
Thirty-day record	2011.7	3.55	71.408
Dutchland Cornucopia Hengerveld 2d 173136, F. F. Field Holstein Co.	527.3	3.51	18.529
Lilly De Kol Pietertje 139711, Arthur D. Cornue	399.9	4.62	18.481
Groveland Pontiac Hijlaard 137139, Frank White	537.8	3.42	18.408
Neta Boon Pride De Kol 142971, George W. Lamb	396.4	4.41	17.473
Tirania Segis 137876, B. B. Andrews	534.5	3.20	17.092
Lady Keyes Korndyke 137394, B. B. Andrews	475.4	3.59	17.073
Thirty-day record	1942.7	3.36	65.255
Buble Maplecroft Burke 142451, Fay & Cloyes	431.5	3.67	16.231
Johanna Abbekerk De Kol Rue 3d 124255, Geo. E. Stevenson	430.0	3.48	14.977
Fourteen-day record	854.9	3.40	29.103
Sethje Burke 136772, R. E. Johnson	335.8	4.12	13.838
Beatrice of Hawthorne Farms 137112, Hawthorne Farms Co.	332.8	4.10	13.632
Lily Oswald Cornucopia 138361, R. E. Johnson	424.8	3.11	13.231
Colantha Johanna Korndyke 129932, E. S. Blossom	388.4	3.40	13.212
Queen Hendrika Piebe 135083, R. H. Thomas	389.9	3.33	12.982
Leta Ormsby De Kol 151097, L. James Lull	364.0	3.48	12.683
Cora Cupid Whetstone 128318, August Matthews	354.5	3.17	11.247
Senior Three-year Class			
Brookdale Pietje Jessie 138648, F. C. Soule & Sons	514.0	4.51	23.172
Preble Koningen Aaggie 158167, A. A. Knapp	553.1	3.94	21.792
Fourteen-day record	1081.2	3.84	41.530
Evelina Calamo Korndyke 154950, R. E. Haeger	429.9	4.94	21.254
Canary Alma Hartog 153608, Lamb & Langworthy	499.2	3.93	19.639
Lady Cornucopia Wayne 141653, Eben Richards	607.3	3.09	18.804
Fourteen-day record	1177.8	3.13	36.942
Sadie Ormsby Ilona 138194, Quentin McAdam	415.9	4.44	18.485
Thirty-day record	1907.0	3.65	69.587
Daffy De Kol Spofford 2d 145289, A. Hursh	385.2	4.76	18.351
Thirty-day record	1837.9	3.94	72.353
Fairlawn Carlotta De Kol Korndyke 143178, F. G. Alderfer	477.3	3.64	17.355
Rollingdale Korndyke Walker 150097, Voss & Turner	442.3	3.92	17.347
Fifteen-day record	885.7	3.90	34.592
Bona Lady Rue 3d 136547, University of Illinois	427.0	3.94	16.829
Leatherwood Belle 175192, Otis Farm Co.	475.7	3.45	16.404
Meadow Clothilde De Kol 2d 153053, F. H. Thomas & Son	461.8	3.54	16.336
Andalusia Ethel De Kol 2d Lass 138079, A. Hursh	414.8	3.94	16.323
Thirty-day record	1750.8	3.75	65.738
Aaggie Maplecroft Pontiac 145650, E. A. Whitford	469.0	3.48	16.310
Josephine of Village Lawn 160994, E. S. Smith	471.5	3.29	15.522
Meg Rector De Kol 154001, A. J. Daugherity	373.7	3.48	12.999
Vinita Bertha Segis 157591, C. T. Goodwin	358.4	3.63	12.997
Sulphur Springs Spofford 156126, J. A. Fuggle	373.1	3.29	12.276
Ornetta Lyons Pontiac 152652, Wm. Bakody	415.2	2.85	11.832
Meg Rector De Kol Johanna 154000, A. J. Daugherity	327.6	3.59	11.748
Vasaline Mae Mechthilde 136041, Wm. Bakody	469.5	2.46	11.576
Cornucopia Pauline Beryl Wayne 148668, John W. Jones	267.3	3.86	10.296
Junior Three-year Class.			
Finderne Holingen Fayne 144551, Edw. F. Meyer	608.1	4.91	29.870
Thirty-day record	2599.1	4.63	120.265
Oakhurst Segis Princess De Kol 164032, Edwin K. Munro	438.9	4.44	19.502
Contest Homestead De Kol 164712, M. S. Nye	477.1	3.95	18.845
Miss Clara Parthenea De Kol Rue 142656, R. E. Haeger	396.5	4.47	17.753
Cornucopia Vase 166794, R. Price Evans	532.3	3.21	17.060
Woodbine Pietertje Queen 169888, G. H. Plummer	494.2	3.40	16.817
Johanna Wayne Abbekerk 153628, W. E. Titus	439.1	3.60	15.798
Fourteen-day record	852.6	3.56	30.325
Pietertje Zozo 3d 149765, Frank Murray	386.7	4.04	15.635
Irmena Johanna Aaggie 2d 164771, Irwin Langworthy	458.0	3.18	14.598
Queen Molly Belle Finis 166363, Chas. Ohler	451.4	3.21	14.493
Merdu Queen of Hawthorne 148847, Hawthorne Farms Co.	396.1	3.58	14.199
Launa De Kol 2d 212245, Cannon & Penrose	524.8	2.70	14.161
Osseo Luecke Anna 170593, R. E. Johnson	368.3	3.74	13.792
Minnie Pontiac Hengerveld De Kol 164127, E. A. Whitford	364.1	3.78	13.768
Blanche Burke Segis 159312, B. B. Andrews	293.4	4.69	13.750
Thirty-day record	1373.4	3.77	51.840
Abbekerk Lotta Cornucopia 148927, H. A. Fish	294.7	4.49	13.244
Clyde Echo 160584, Hawthorne Farms Co.	298.9	4.36	13.061
Florence Ononis of Hawthorne 150765, Hawthorne Farms Co.	333.7	3.71	12.382
Matilda Pietertje Johanna 164742, John H. Diehl	305.2	4.05	12.356
Rose of Village Lawn 160997, E. S. Smith	400.3	3.08	12.348
Belle Johanna of Hawthorne 148848, Hawthorne Farms Co.	278.9	4.38	12.229
Inksper de Haan Korndyke Beauty 2d 163943, J. A. Fuggle	358.7	3.34	12.012
Janzen Sanesta Cornucopia 168376, Clem Dasenbrock	408.7	2.92	11.928
Woodbine Abbekerk De Kol 165833, G. H. Plummer	361.6	3.27	11.852
Katie of Hawthorne 147048, Hawthorne Farms Co.	313.5	3.77	11.820
Florence Theda of Hawthorne 150761, Hawthorne Farms Co.	350.9	3.31	11.612
Sue De Kol of Hawthorne 150760, Hawthorne Farms Co.	274.3	4.23	11.598
Muriel Concordia Korndyke 148717, J. T. Williams	324.4	3.56	11.574
Annie Burke of Hawthorne 148282, Hawthorne Farms Co.	284.0	4.06	11.519
Belle Carmen Longfield, 171856, Otis Farm Co.	327.3	3.50	11.480
Groveland Pauline Posch 2d, 160991, Frank White	306.2	3.50	10.723
Walled Lake De Kol 175193, Otis Farm Co.	288.9	3.54	10.231
Lady Washington De Kol 2d 135987, Bening & Hortsmann	240.7	4.15	10.000
Crown Princess De Kol Paul Rose 3d, 168018, Hiram P. Loverin	278.6	3.57	9.955
Brookdale Jessie Veeman Lady 166625, John D. Hagan	331.6	2.96	9.829
Senior Two-year Class.			
Spruce Lawn Lady Korndyke 173580, H. F. Mayne	488.6	3.34	16.334
Snowball Pink Babe 158072, Fred J. Karlen	390.4	4.18	16.318
Ormsby De Kol Pauline 173481, W. F. Titus	320.1	4.70	15.065
Oakhurst Segis Clothilde 164026, Edwin K. Munro	379.4	3.91	14.850
Maud Pontiac Pleione Korndyke 174939, E. A. Whitford	349.3	4.13	14.438
Korndyke Tau 155041, E. M. Hastings	333.4	4.19	13.958
Daisy Netherland Lady 3d 156263, Edwin K. Munro	331.5	4.12	13.658
Lady Diotime Pauline 180611, John H. Diehl	337.9	3.84	12.978
Woodlawn Josephine Segis 179662, J. T. Williams	287.8	4.31	12.414
Sunny Side Bonny Bess, 232064, L. D. Morrisey	396.8	3.04	12.071
Fourteen-day record	790.5	2.98	23.628
Jane De Kol Clothilde 168198, B. C. Buxton	369.6	3.26	12.063
Segis Grace Pontiac 170599, R. E. Johnson	344.7	3.44	11.851
Pauline Hengerveld Fayne 159515, Hawthorne Farms Co.	304.0	3.86	11.720
Korndyke Cornucopia Pauline 172413, Quentin McAdam	306.7	3.78	11.581
Thirty-day record	1387.6	3.31	46.068
Korndyke Beets Jeek Queen 179155, H. L. Allen	335.6	3.43	11.496
Nelly Rector Lady Johanna 183537, A. J. Dougherity	389.4	2.81	10.973
Osma Mechthilde De Kol 176345, Hawthorne Farms Co.	239.2	4.06	9.703
Miss Clothilde Hengerveld 159502, F. D. Gott	318.5	3.03	9.671
Ida Hengerveld of Hawthorne 164143, Hawthorne Farms Co.	244.7	3.87	9.473
Madrigal Pauline De Kol Mercedes 3d 152435, August Matthews	275.2	3.31	9.118

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The Corse Press

Sandy Creek N. Y.

WANTED

Competent man to take charge of and develop a herd of Holstein Cattle.

Address:

LENNOX

Care of

HOLSTEIN-FRIESIAN WORLD.

THREE JR. 2-YR-OLDS

Over 20 lbs. butter and over 460 lbs. milk each in 7 days, average age 1 yr. 11 mo. 16 days, have been raised at Eli Farm.

Bred cows and heifers soon due around $250 each. Unbred heifers around $175 each. Young bulls, own dams over 23 lbs. butter and over 600 lbs. milk in 7 days around $150.

Chas. Westerheide New Douglas, Ill.

WANTED

We have just bought Johanna King Segis and want to sell our herd sire, Jessie Maida Paul De Kol Burke 3d 60290, a show bull, whose dam and sire's dam have records averaging 27.49 pounds. His sire is by Paul De Kol Jr., whose dam was the first 30-lb. cow of the breed. His dam is Lida De Kol 2d, from a daughter of the World's Champion 14-yr-old cow and Lord Netherland De Kol, who has more A. R. O. daughters and more producing daughters than any other sire of the breed. He is three-fourths white, 5 years old, gentle and a sure breeder. First check for $250.00 gets him.

HOUSLET & McNUTT
Oxford, Wis.

TYPEWRITTEN PEDIGREES

On the best quality paper 9½x14 with diagram. No. 2—14 ancestors Blue Book records (3 for $1), 35c. No. 5—14 ancestors up-to-date pedigree in 2 colors 75c. Carbon copies 10c each. Give name and number of sire and dam of animals not registered and of those having numbers above 205896 in cows and 111599 in bulls. For interesting prices on sale catalogs address

F. G. JOHNSON
37 W. Lane Ave., Columbus, Ohio.

? HAVE YOU ?

bought that bull yet? We offer a son of our herd sire, Pontiac Triumph Cornucopia, who was by Pontiac Cornucopia, and from a 26-lb. daughter of Hengerveld De Kol. The dam is a 19-lb. daughter of Belle Korndyke Beryl Wayne. Calf was born October 20, 1913, and is a bargain at our price.

H. C. STANTON
Clifton Heights, Delaware County, Pa.

Nellie Johanna Rector 178356, A. J. Daugherity	319.4	2.85	9.111
Marion of Hawthorne 157256, Hawthorne Farms Co.	236.4	3.82	9.046
Duchess Canary Pauline 149675, O. H. Erdman	263.3	3.40	8.942
Lady Woodmont Mechthilde 162089, Hawthorne Farms Co.	221.2	3.92	8.653
Junor Two-year Class.			
K. P. Lilith Altoana 178638, Stevens Bros. Co.	406.8	4.49	18.282
Thirty-day record	1906.4	3.61	68.832
Beaver Dam Einetta 171572, Julius Schmid	410.5	4.35	17.874
Thirty-day record	1637.9	4.29	70.259
Woodlawn Albina Segis 179653, J. T. Williams	375.8	4.71	17.698
Belle Model Pietje 230255, A. C. Hardy	304.7	5.75	68.566
Spring Farm Lotta Belle Pontiac 194116,	349.4	4.96	17.332
Twenty-one day record	1025.8	3.97	40.688
Bonalevo Walker Pietertje Artis 178006, R. E. Chapin	394.6	4.26	16.814
Thirty-day record	1710.1	3.97	67.933
Neta Korndyke Burke 2d 181180, D. C. Hostetler	418.1	3.98	16.622
Fourteen-day record	783.7	4.11	32.194
Elzevere Barnum De Kol 3d 177604, Quentin McAdam	319.9	5.08	16.272
Thirty-day record	1644.1	3.97	65.388
Beauty De Kol Butter Maid Segis 172349, Frank White	376.2	4.19	15.782
Dutchland Topsy Hengerveld Belle 199408, F. F. Field Holstein Co.	371.0	3.91	14.503
Thirty-day record	1485.2	4.02	59.745
Moole Serida Abbekerk 174713, B. B. Andrews	357.8	4.00	14.308
Meadow Brook Daisy Fayne 177131, John C. Sharpe	374.1	3.74	14.000
Orrville Johanna Beauty 179027, A. Hursh	365.2	3.82	13.948
Thirty-day record	1504.4	3.72	55.953
Aaggie Oosterbaan Butter Girl 193003, H. M. Woodward	366.4	3.79	13.881
Premier Pontiac Jessica 201755, F. H. Thomson & Son	351.7	3.91	13.776
Thirty-day record	1441.7	3.91	56.467
Aaggie Pearl Queen 166300, Fred J. Karlen	326.8	4.20	13.715
Beaver Dam Pazetta 167910, Julius Schmid	379.9	3.60	13.702
Valley View Hengerveld De Kol 190888, S. B. Taylor	348.2	3.92	13.653
Lulu Veeman Pontiac 182522, Geo. E. Stevenson	318.8	4.23	13.473
Thirty-day record	1420.2	3.68	52.200
Beaucoup Madeline Segis Walker 176296, Melvin A. Smith	398.4	3.44	13.412
Ontario Inka Belle 164117, C. S. Hunt	287.4	4.65	13.371
Goshen Azelda Johanna 206458, A. Marriott	328.0	4.04	12.235
Woodlawn Daisy Segis 179660, J. T. Williams	354.8	3.64	12.945
Valley View Netherland Pontiac 194301, S. B. Taylor	337.8	3.83	12.933
Mountain Nade Hearts 177588, Ivan J. Doyle	316.3	4.03	12.854
Groveland Inka Mercedes 182096, Frank White	367.5	3.49	12.842
Fourteen-day record	718.7	3.50	25.149
Napol Vale De Kol 205892, Geo. E. Stevenson	345.0	3.70	12.762
Fourteen-day record	684.0	3.67	25.116
Premier Pontiac Primrose 200831, F. H. Thomson & Son	362.1	3.51	12.724
Thirty-day record	1476.3	3.60	53.372
Meadow Brook Janet Fayne 177135, John C. Sharpe	356.2	3.51	12.516
Spruce Lawn Queen Pontiac 195616, H. F. Mayne	368.4	3.37	12.425
Woodlawn Laura Cornucopia Segis 202613, J. T. Williams	344.1	3.54	12.175
Meadow Lawn Pauline 2d 182883, R. E. Haeger	285.5	4.26	12.170
Woodlawn Dandie Cornucopia Segis 202610, J. T. Williams	338.8	3.58	12.130
Brooklawn True De Kol 167508, Hiram P. Loverin	330.3	3.62	11.973
Mooie Tirania 174714, B. B. Andrews	365.6	3.27	11.963
Irene Edwards 182377, F. E. Isham	268.8	4.32	11.623
Indianola Pontiac 186834, Clair I. Miller	350.8	3.30	11.564
Maple Pontiac Hengerveld 179522, Clem Dasenbrock	374.3	3.06	11.461
Preble Artis Ybma Spofford 183660, A. A. Knapp	362.0	3.13	11.343
Countess Aaggie De Kol Mercedes 177358, R. H. Thomas	331.0	3.43	11.337
Korndyke Gem Ormsby 188160, Quentin McAdam	301.9	3.75	11.336
Thirty-day record	1427.0	3.29	46.951
Beaucoup Lorane Segis 174089, Melvin A. Smith	368.6	3.07	11.328
Lee Twish 2d 182295, J. T. Williams	307.5	3.67	11.278
Grand Pontiac De Kol 220588, F. E. Isham	307.1	3.65	11.196
Fourteen-day record	604.5	3.61	21.851
Premier Pontiac Pauline 204747, F. H. Thomson & Son	298.9	3.74	11.189
Colantha Aaggie Butterball 207331, D. W. Field	365.0	3.05	11.121
Mechthilde Fern Melvin De Kol 216746, Geo. E. VanHaegen	287.2	3.87	11.121
Pleasant View Spot 178619, A. Hursh	287.0	3.85	11.054
Elnoradale Maud Ormsby 191089, O. L. Wilkinson	332.2	3.32	11.014
Aaggie Pauline De Kol Colantha 2d 156862, W. H. Horstmann	269.2	4.08	10.972
Mapleside Netherland De Kol 182296, J. T. Williams	289.1	3.75	10.832
Meadow Brook Prilly Fayne 177138, John C. Sharpe	317.0	3.42	10.828
Washington De Kol Pietertje 162087, Bening & Horstmann	324.4	3.30	10.704
Maggie Korndyke 179584, Geo. E. Stevenson	377.6	2.81	10.618
Thirty-day record	1511.5	2.70	40.834
Mapleside De Kol Dictator 182298, J. T. Williams	253.9	4.13	10.490
De Kol Jewel Lady Pontiac 169482, R. E. Haeger	266.9	3.90	10.406
Janzen Pontiac Sanesta Artis 180957, Clem Dasenbrock	365.2	2.77	10.129
Rollingdale Model Cornucopia 198780, Voss & Turner	316.6	2.77	10.129
Fifteen-day record	650.4	3.08	20.061
Korndyke Tritomia of Bonnie Mead 2d 183458, Geo. E. Stevenson	252.0	3.97	9.992
Thirty-day record	1180.8	3.33	39.287
Woodlawn Burke Cornucopia Pauline 202609, J. T. Williams	287.7	3.45	9.931
Valley View Barbara Pontiac 194299, S. B. Taylor	263.5	3.75	9.876
Mabel Gerster De Kol 183468, Clair I. Miller	268.5	3.59	9.640
Barbetta De Kol Mercedes 177700, R. H. Thomas	395.3	2.42	9.554
Beryl Netherland Paul Nannette 2d 195308, G. H. Plummer	268.8	3.48	9.377
Maid of Cloverdale Segis 183536, A. J. Daugherity	335.0	2.77	9.295
Lady America Johanna De Kol 2d 180445, C. F. Aldrich	318.1	2.81	8.953
Lady Melanie Gelsche 190344, Baird Bros.	308.6	2.90	8.943
Urma Fayne De Kol 175997, I. Willard Jones	272.7	3.27	8.927
Lakeside King Segis Ormsby 148719, E. A. Powell	251.9	3.54	8.914

From Feb. 13 to April 30, 1914—211 Cows.

Full Aged Class.

Crown Pontiac Josey 101812, A. A. Knapp, 365 days	28752.3	3.42	982.23
Caroline Paul Parthenea 77784, R. J. Schaefer, 365 days	25072.6	3.86	966.55
Tweede White Lady 83186, F. M. Jones 365 days	21037.1	4.29	902.28
De Kol Hubbard Pietertje 94136, Conn, Agr. College 365 days	23175.7	3.58	830.72
Miss Blaney 75852, A. W. Morris & Sons, 365 days	20740.3	3.89	806.62
Lady Oak Fobes De Kol 104269, University of Minn., 365 days	22063.5	3.60	793.20
Aralia De Kol 55194, A. W. Morris & Sons, 365 days	22922.0	3.32	760.56
Traverse Princess Inka 108608, Traverse City Hospital, 365 da.	19412.8	3.88	752.64
Grace of Portage De Kol 79997, Geo. Hetts & Son, 365 days	22087.1	3.35	739.08
Maud H. 2d Lass 128785, Delaware College, 365 days	20166.8	3.61	727.80
Beauty Aaggie Grace 97474, H. V. Noyes, 365 days	20217.8	3.48	703.95
Nellie Alcartra Rue 100005, Geo. F. O'Neil, 365 days	19213.8	3.64	699.49
Lothian Mary De Kol 100999, Alexander Watt, 365 days	22377.0	3.06	684.61
Pietertje Bloom 66816, University of Cal. 365 days	21455.3	3.16	678.04
Edith De Kol Burke Hengerveld 127664, Fred Pabst, 365 days	20105.1	3.36	676.08
Cobossie Butter Girl 75853, A. W. Morris & Sons, 365 days	19543.2	3.39	662.90
Tennessee Pauline DeKol 94036, R. E. Chapin, 365 days	20998.6	3.14	659.78
Arkona's Clara 2d 117965, City of Cleveland, 365 days	19818.0	3.33	659.00
Louise of Riverside 93945, A. W. Morris & Sons, 365 days	18362.3	3.55	640.87
Ethel of Riverside 93923, A. W. Morris & Sons, 365 days	16569.3	3.87	640.87

WALKER LILITH ALTOANA

Only bull in the world whose dam's 2-yr-old and 3-yr-old records average over 30 lb. We offer a bull calf from a good granddaughter of King Segis.

HAROLD F. HUBBS, Kirkville, N. Y.

BOND CENTURY FARM
Canastota, N. Y.

HEIFER CALVES FOR SALE

Granddaughters of King of the Pontiacs

Address **W. E. BOND,** Potsdam, N. Y.
or call at the farm.
W. A. HOTCHKISS, Mgr.

ADVERTISEMENT

Having made up my mind to substitute pure bred Holsteins, will sell the best herd of Grade Holsteins in the country. Fifty cows averaging 1400 lbs. of milk per month. Thirty-five Heifers and Yearlings. Will also sell ten Jersey cows and eight Jersey Fall calves. This is the bargain of the year. Write for particulars.

CASE DAIRY FARM
Waterloo - - - - - - Iowa

BLUE BOOK

HOLSTEIN-FRIESIAN ADVANCED REGISTER YEAR BOOK—(BLUE BOOK)

This book of a thousand pages, the first complete compendium of Holstein-Friesian records published by the Advanced Registry office, contains important information that will not be repeated in future volumes. It is, therefore, indispensable to the breeder who cares for a means of convenient access to the figures for all the official milk and butter records of the breed.

It contains a complete list of all sires, with all daughters that have been admitted to Advanced Registry from the commencement of official tests up to May 1, 1913, with their records. Also lists of the producing sons and daughters of such sires; a complete list of dams of two or more A. R. O. daughters, the daughters' records and the producing sons and daughters of such cows; lists of twenty-five leading animals in each of the seven classes of the four prize divisions, price lists, lists of cows tested during that year with their records, etc. A limited number of copies still remains and will be sold while they last at $2.00 per copy. Send all applications with check to M. H. Gardner, Supt. of Advanced Registry, Delavan, Wis.

A SON OF THE $50,000 BULL

King Segis Pontiac Alcartra, heads our herd. His dam, Daisy Veeman Hengerveld, 29.14 lb. butter, is now on test and is expected to increase this record. We offer females bred to this sire.

We are offering a nicely bred yearling in calf to the $50000 bull.

J. H. PHELPS & SON

Cresdale Farm **Vernon, N. Y.**

WANTED

30-lb. cows. A dozen or more. Must be good individuals, at right prices.

John Arfmann, Middletown, N.Y.

Pietertje Grindetia 2d 99723, E. M. Jones, 359 days	17039.1	3.63	619.03
Maple Grove Kleiterp De Kol 2d 109694, F. M. Jones, 335 days	15332.0	4.03	618.07
De Kol Pietertje Clothilde 97568, Henry G. Beyer, 348 days	15705.7	3.93	617.60
Madison Jennie 100698, Christopher Graham, 365 days	17841.9	3.45	615.74
Princess Pontiac 99826, F. M. Jones, 338 days	17304.8	3.52	608.81
Orpha Pontiac 100049, F. M. Jones, 304 days	13816.5	4.40	608.55
Bald Face Korndyke 111975, W. S. Moscrip, 334 days	16751.6	3.62	606.07
Jolie Ocena Netherland De Kol 112965, Alexander Watt, 361 days	17571.5	3.44	603.94
Marie Hengerveld De Kol 105649, J. B. Irwin, 330 days	13968.0	4.30	600.70
Hilldale Pietertje Burke 106106, F. R. Lillie, 365 days	17500.8	3.40	595.70
Netherland Netta De Kol 3d 98964, W. H. Steiner, 365 days	17515.4	3.31	580.62
Mechthilde of Delafield 108539, Fred Pabst, 365 days	16508.6	3.40	560.78
Narcissus Inka Clothilde 93263, W. S. Moscrip, 334 days	14792.3	3.78	559.02
Sadie Vale Madrigal 89278, Geo. Hetts & Son, 341 days	18094.9	3.06	553.78
Canary Mercedes Keyes 105734, F. M. Jones, 334 days	14398.1	3.84	552.97
Onda Dorothy Concordia Vale 8011, C. I. Corby, 349 days	14321.6	3.80	544.56
Johanna Rue Clothilde Clyde, 86964, W. H. Steiner, 365 days	16346.5	3.32	543.47
Elnora Fayne De Kol 100015, Henry Stevens & Son, 365 days	17221.7	3.14	539.99
Helena Juliana Burke of Riverside 93935, B. F. Anderson, 289 days	15065.2	3.47	523.43
Pontiac Dione 61106, Geo. E. Van Hagen, 365 days	16679.0	3.13	522.54
Colantha Bakker Loningen 90577, Emblagaard Dairy, 365 days	14948.6	3.46	517.82
Oriskany Keyes 105736, F. M. Jones, 268 days	12766.4	4.03	513.87
Pontiac Guschen 103857, F. R. Lillie, 365 days	14562.7	3.49	507.65
Belle Homestead De Kol 66549, Christopher Graham, 365 days	14121.3	3.57	504.45
Glista Candida 103096, Cornell University, 365 days	14076.9	3.44	484.11
Ruby Lockhart 80160, B. B. Davis, 365 days	14554.6	3.31	481.48
Barbetta Orleans De Kol 74095, Christopher Graham, 365 days	13847.2	3.41	472.25
Salma Pietertje Careme 4th 95682, G. F. O'Neil, 337 days	13178.7	3.44	453.78
Juma Longfield Sarcastic 96060, University of Illinois, 365 days	13285.0	3.40	451.78
Madge De Kol Vrooman 86998, U. S. Soldier's Home, 365 days	13256.6	3.40	451.17
Oatka Spofford 131405, Alfred University, 365 days	12694.8	3.51	445.09
Lucy Duchess De Kol 96348, Iowa State College, 338 days	12895.4	3.41	440.27
Fannie Lilu Siempje 2d 94652, U. S. Soldier's Home, 365 days	14784.7	2.94	434.35
Victoria V. 61520, John W. Worthington, 322 days	12841.4	3.36	431.78
Miss Korndyke Hengerveld Johanna 108209, J. B. Irwin, 291 days	11337.3	3.70	419.72
Tirania Yankee 2d's Maid 3d 101098, Nelson Bros., 365 days	10991.4	3.68	404.57
Yankee De Kol de Yong 2d's Yankee Girl 89535, Nelson Bros., 365 days	11576.6	3.21	371.87
Collins Chloe 96282, Colorado Agr. College, 359 days	12340.3	2.98	367.97
Longfield Barbetta 94590, Christopher Graham, 305 days	9674.4	3.51	339.73
Senior Four-year Class			
Belle Mercedes Longfield 105393, L. E. Ferguson, 365 days	19821.2	3.41	675.30
Pledge Hengerveld Aaggie Grace 106512, W. H. Steiner, 365 days	18271.2	3.37	615.84
Dorothy Aaggie Grace 106514, W. H. Steiner, 365 days	17456.7	3.45	602.27
K. S. P. Dione 120436, Fred Pabst, 365 days	16213.5	3.57	579.62
Floa Bergsma Butter Girl 122532, A. W. Morris & Sons Corp. 365 days	15383.7	3.62	557.23
Dowager Queen 2d Girl 126684, Fred Pabst, 365 days	16012.1	3.46	554.72
Wilhelmina De Kol Netherland 2d 167777, L. J. Mosher 313 days	14850.7	3.74	554.05
Empress of Pleasant View Farm 3d Lady 117904, David Roberts, 365 days	13504.5	3.78	509.91
Fairview Colantha Korndyke 112108, C. I. Corby, 304 days	13826.9	3.57	493.96
Glista Echo 118313, Cornell University, 335 days	13565.6	3.62	490.68
Junior Four-year Class.			
V. P. I. Veeman De Kol 120407, Virginia Polytechnic Inst., 365 days	17333.0	4.41	764.27
Pelham Baby 3d, 118066, Henry Stevens & Son, 365 days	18749.3	3.40	637.55
Walker Pietertje Tennessee 142690, R. E. Chapin, 365 days	19037.0	3.09	589.16
Kelco Martha De Vries 126536, Henry Stevens & Son, 365 days	17546.6	3.27	573.32
Dutchland Colantha Johanna 120776, F. F. Field Holstein Co., 365 days	16584.9	3.21	532.30
Pabst Ormsby Terzool 114186, Fred Pabst, 365 days	15327.9	3.26	499.00
Colantha 4th's Lad Inka 118899, Iowa State College, 365 days	12936.5	3.75	484.61
Lady Johanna De Kol Pride 131605, David Munroe, 365 days	12557.2	3.77	473.98
Fay De Kol Burke 4th 114881, Conn. Agri. College, 365 days	13914.9	3.36	467.02
Lula Johanna Colantha 131614, David Monroe, 365 days	14085.9	3.25	457.73
Pabst Lady Mechthilde 116424, Fred Pabst, 365 days	13198.4	3.38	446.65
Johanna Lilly 129867, Geo. Lenhert, 365 days	12690.0	3.23	410.45
Oak Grove Leona 118070, M. W. Downing & Bro., 365 days	12220.6	3.12	381.62
Modest Lass 2d Pride 131641, David Munroe, 307 days	12328.8	2.99	368.75
Senior Three-year Class.			
Violet Houwtje Lady 121618, Tennessee Exp. Station, 365 days	15408.6	4.09	630.45
Johanna Paul Parthenea 139492, R. J. Schaefer, 365 days	15634.0	3.97	620.81
Pabst Hartog Luly 130421, Fred Pabst, 365 days	16266.7	3.71	602.93
Geneseo Beauty 2d 128916, A. W. Morris & Sons Corp., 365 days	18065.3	3.25	586.31
Glista Cora 117997, Cornell University, 314 days	14523.5	3.69	535.56
Cybele Butter Boy De Kol 143005, City of Cleveland, 365 days	15562.9	3.40	529.88
Heilo Abbekerk Hengerveld 139141, Geo. Hetts & Son 304 days	13611.0	3.56	484.55
Spring Farm Pauline Pontiac 138999, F. M. Jones, 283 days	12710.1	3.45	438.12
Maudlene De Kol Johanna 117155, C. W. Culver & Son, 346 days	14830.4	2.84	421.27
Becky Korndyke 139470, M. W. Downing & Bro., 365 days	10953.1	3.32	363.70
S. H. Princess Concordia Nudine 120511, U. S. Soldiers' Home, 361 days	11703.5	2.89	338.73
Lady Valencia 4th's Natsey Lady 122230, Tenn, Exp. Sta., 302 days	8394.3	3.84	322.44
Junior Three-year Class.			
Briar Pietje Abbekerk, 127718, A. A. Knapp, 365 days	21628.3	3.53	764.35
Claytonia Johanna Piebe 211885, R. J. Schaefer, 365 days	19244.4	3.43	660.64
Woodcrest Topsy Beets 125830, J. W. Dimick, 365 days	19754.7	3.31	654.45
Pinehurst Pleve 133468, Peter Reiss, 365 days	17234.0	3.14	541.50
Almeda Luecke Belle 131662, Geo. E. Van Haegen, 365 days	17397.0	2.98	519.22
Jessie Fobes Beets Segis 145952, David Munroe, 365 days	13953.7	3.69	515.23
Navahjo Mercedes Posch 129653, S. A. Baird & Son, 365 days	14791.0	3.38	499.25
Miss Korndyke Skylark Ormsby 137795, J. B. Irwin, 365 days	12219.2	3.93	480.14
Eva Pietertje Beets Segis 129651, S. A. Baird & Son, 365 days	14303.3	3.35	478.55
Pinehurst Thoro 133470, Peter Reiss, 365 days	15870.6	2.96	469.63
Lorie Korndyke De Kol 2d 125228, F. R. Lillie 359 days	12376.0	3.37	417.13
Beryl Queen 2d 139140, Geo. Hetts & Sons, 345 days	11324.2	3.50	396.25
Fairview Pontiac Pet Korndyke 136477, C. I. Corby, 291 days	9362.3	4.04	378.08
Lady Oak Homestead Segis 145961, David Munroe, 304 days	11123.7	3.19	354.80
Korndyke Chloe Mechthilde 137452, Col. Agr. College, 363 da.	10560.1	3.25	342.94
North Star Kate 131290, W. S. Moscrip, 315 days	9787.2	3.46	388.61
Yankee De Kol de Yong 5th 146219, Nelson Bros., 351 da.	10582.0	3.17	335.43

King Pontiac Calypso

53420

We consider the **best bred, best individual** and **best developed** son of his sire, King of the Pontiacs.

Just six years old, King Pontiac Calypso has already a 31.78-lb junior 3-yr-old daughter. Twelve of his fifteen tested daughters, of which only four have reached 3 years of age, average 21.81 lbs. butter in 7 days, all testing 4% fat or better. No four-year-olds are tested as yet.

In my herd are ten daughters of King Pontiac Calypso, all of which are excellent 30-lb. candidates.

I have for sale bull calves out of A R. O. daughters of King Pontiac Calypso. Also a bull calf out of a 21-lb. cow, and a bull calf out of a 23-lb. daughter of "KING," sired by King Lyons 3d. Also for sale a 2-mos.-old heifer calf sired by a grandson and out of a granddaughter of King of the Pontiacs.

Services of King Pontiac Calypso and two of his best sons to approved cows.

S. R. Clark

Onondaga Valley, N.Y.

AURAY FARMS

¶ Several more Clorinda bulls ready —by King Segis Pontiac Clorinda.

¶ ¾ brother to the priceless Fairmont Farm Sire, King Segis Pontiac Alcartra.

¶ Perfect individuals, three to six mos. old, from our own A R. O. daughters and granddaughters of: King of the Pontiacs, King Segis, Homestead Girl De Kol, Sarcastic Lad, and other leading sires.

¶ $100 to $250 and upward.

¶ World's record breeding at moderate prices.

¶ Satisfaction and safe delivery guaranteed. Printed charts, photos and particulars on request.

AURAY FARMS

F. M. Avery **I. M. Avery, Mgr.**

SPARTA, Sussex Co., N. J.

RAISE PIGEONS

They Pay Dollars while Chickens pay cents

The young, 20 to 25 days old, sell for 40 to 60 cents each (according to the season). The city markets are always clamoring for them

Each pair of Pigeons will raise 18 to 22 young a year.

They will clear you, above all expenses, $5.00 a year per pair. They breed the entire year. Twenty minutes daily will care for 100 pairs.

Always penned up out of the way
Very small space required

All this is fully explained in this month's issue of our Journal; send for it; price 10 cts.

Reliable Squab Journal, Versailles, Mo

Senior Two-year Class.			
Inka Beets De Kol 147753, F. S. Stimson, 365 days	19673.6	3.88	763.57
Lockhart Alma 2d 150640, Henry G. Beyer, 365 days	16176.8	3.97	641.52
K. P. Ophelia 143259, Stevens Bros., 365 days	17228.6	3.48	600.10
Piebe Pontiac De Kol 3d 211886, R. J. Schaefer, 365 days	14672.4	3.62	530.86
Bairdland Aaggie Cornucopia 135270, S. A. Baird & Son 365 days	15463.5	3.36	519.33
Piebe Aagje De Kol 139491, R. J. Schaefer, 365 days	13770.8	3.63	499.70
Onda Vale Cornucopia 2d 153904, C. I. Corby, 345 days	12815.4	3.25	416.97
Sadie Vale Korndyke 2d 153984, C. I. Corby, 317 days	9747.2	4.07	397.19
Beechwood Sarcastic Queen 2d 151650, Univ. of Illinois, 365 days	11884.7	3.09	367.77
Sunflower Sunbeam Cornucopia 133172, Nelson Bros., 365 days	13086.0	2.72	356.54
Junior Two-year Class.			
Lady Paul Livardy 3d 166035, J. W. Dimick, 365 days	20936.7	3.52	737.36
Aralia De Kol 3d 164130, A. W. Morris & Sons, 365 days	17509.5	3.53	618.35
Pietje Inka De Kol 2d 172003, L. E. Ferguson, 365 days	13501.6	4.24	572.45
Wisconsin Pride 165568, John Erickson, 365 days	14707.9	3.79	557.40
Buffalo Alice Johanna 142768, R. B. Young, 365 days	18269.1	3.02	551.17
Leah Campbel Mutual Jess 165446, Kansas Agr. College, 365 days	15170.3	3.52	533.87
Lothian Queen Korndyke Pietertje 156145, Alexander Watt, 365 days	16113.1	3.27	527.16
College Belle Wayne 2d 154817, Dakota State College, 365 days	16260.7	3.22	523.81
Shadeland Zora Johanna 2d 154611, E. C. Schroeder, 365 da.	14449.7	3.62	523.75
Lady Madge Pauline De Kol 4th 154613, E. C. Schroeder, 365 days	12621.6	4.15	523.50
Spring Farm Canary Korndyke 163047, F. M. Jones, 330 days	12445.0	4.09	508.95
Spring Farm Korndyke Maid, 163159, F. M. Jones, 358 days	13679.6	3.67	501.65
Nudine Daisy Pondyke 152497, A. W. Morris & Sons, 365 da.	13884.6	3.58	497.16
Valley Rose Champion 157889, Peter Reiss, 365 days	15817.1	3.06	484.51
Pabst Canary Queen 2d 150183, Fred Pabst, 365 days	13636.4	3.55	483.76
Pietertje Bloom 2d 169995, Univ. of Cal., 365 days	13216.1	3.49	460.72
North Star Skylark Ormsby 165731, W. S. Moscrip, 365 da.	13377.2	3.43	459.06
Poland Beauty Fobes Hengerveld 165447, Kansas Agri. Col., 365 days	13833.1	3.30	456.45
Leah Campbel Fobes De Kol 164680, Kansas Agr. Col., 365 days	13101.6	3.42	447.73
Sterling Jewel Netherland 154636, W. H. Steiner, 365 days	13057.5	3.31	432.24
Princess Colantha Jewel 5th 173264, John Erickson, 365 days	11558.3	3.71	429.26
Tina Clay De Kol Sarcastic 2d 151653, Univ. of Ill., 365 da.	11923.4	3.58	426.66
Spring Valley Netherland Belle 5th 165914, C. Tochterman, 365 days	13683.0	3.10	424.10
Princess Mercedes Piebe 3d 173267, John Erickson, 365 days	12993.7	3.18	412.76
Tina Bona Rue 151939, Univ. of Ill., 365 days	12587.2	3.21	403.45
Daisy Friend 173268, John Erickson, 365 days	11757.3	3.40	399.34
Poland Pride Mutual Clothilde 164681, Kansas Agr. Col. 365 da	12959.6	3.05	395.13
Spring Valley Violet Longfield 165917, C. Tochterman, 365 days	11906.4	3.31	394.61
Spring Valley Queen Piebe 165915, C. Tochterman, 365 da.	11510.3	3.27	376.26
Ann Gerben Lincoln 148988, Univ. of Neb., 365 days	12892.1	2.91	375.29
Lady Pearl Buckeye 152833, City of Cleveland, 344 days	10046.8	3.51	352.29
Pabst Champion Aaggie Colanthus 166611, Fred Pabst 365 days	11241.3	3.11	349.29
Dot De Kol Johanna 2d 153903, C. I. Corby, 325 days	9364.4	3.56	333.84
Flossie Klaver Korndyke 176484, F. B. & W. P. Sprague, 365 days	9783.7	3.31	323.86
Full Aged Class.			
Elliston Pietertje 2d 109603, A. A. Knapp	520.1	3.60	18.718
Agatha Pontiac 99818, Francis M. Jones	361.2	4.72	17.060
Lothian Maggie De Kol 90209, Alexander Watt	403.8	3.87	15.745
Lothian Mary De Kol 100999, Alexander Watt	434.2	3.18	13.821
Seven-day record	404.7	3.35	13.556
Flossmor Snowflake 155948, Geo. E. Van Haegen	362.3	3.55	12.851
Cornucopia Denver Pontiac 104387, Murphy & Gillette	350.9	3.51	12.321
Lady Whitefoot 2d 98489, Iowana Farms	377.1	3.01	11.361
Fourteen-day record	735.5	2.93	21.578
Chippewa Piebe Burke 75718, University of Minn.	292.7	3.85	11.280
Judy Sturtevant 186222, Traverse City State Hosp.	347.8	3.22	11.189
De Cola Olive 100010, Iowana Farms	326.7	3.29	10.733
Aaggie Pauline De Kol Lelia 74610, E. A. Whitford	355.6	3.05	10.258
Crookston Pearl 126784, University of Minn.	254.6	3.67	9.334
Blackeye Pet 2d 110975, M. B. C. Orphanage & Home	265.1	3.26	8.633
Junior Four-year Class.			
Jolie Johanna Netherland 168530, Burr Bros.	474.1	3.30	15.644
Thirty-day record	2021.3	3.17	64.111
Maple Knoll Paula 3d 123179, Julius Schmid	421.4	3.12	13.150
Beechwood Anna Longfield 134452, Julius Schmid	300.2	4.38	13.139
Vogelschen of Sleepy Hollow 133787, L. A. Hall	336.8	3.25	10.946
Flora Pietertje Johanna 121517, F. M. Jones	285.9	3.60	10.298
Sadie Veeman Butter Boy 125734, Fred N. Watkins	225.8	3.81	8.601
Oak Grove Leona 118070, M. W. Downing & Bro.	211.9	3.28	6.947
Princess Leo Salo 121729, Melvin & Godfrey	184.5	3.57	6.594
Senior Three-year Class.			
Colantha Yankee Mary Korndyke 145398, James Phelan	325.3	4.01	13.039
Johanna Korndyke Segis 157894, Harry B. Davis	371.1	3.37	12.519
Pabst Hartog Lulu 130421, Fred Pabst	252.4	3.85	9.723
Lipkje Jewel De Kol 130727, Harrington Sisters	248.4	3.89	9.675
Junior Three-year Class.			
Nifty Nan 135800, Colony Farm	338.5	3.65	12.341
Thirty-day record	1405.0	3.67	51.547
Claytonia Johanna Piebe 211885, Schaefer	352.4	3.44	12.108
Pamona Aaggie McKinley 145624, Alexander Watt	236.5	4.32	10.220
Meadow Brook Prilly Janet 144306, John C. Sharpe	263.2	3.85	10.134
Anna Terry Beets 151405, Geo. E. Van Haegen	298.3	2.98	8.880
Aaggie Korndyke Vale 141468, Est. Harry D. Wheeler	238.8	3.39	8.107
Senior Two-year Class.			
Terracelawn Judith Segis 209028, H. C. Swartout	266.8	3.65	9.725
Jenny Wren Clothilde 7th 141834, City of Cleveland	292.6	2.98	8.721
Junior Two-year Class.			
Aralia De Kol 3d 164130, A. W. Morris & Sons Corp.	325.3	4.07	13.234
Eli Oak Belle 209026, C. M. Bottema	425.1	2.90	12.315
Woodcrest Ina De Kol 3d 153889, J. W. Dimick	355.7	3.45	12.254
Colantha Anselica 164861, James Phelan	328.5	3.53	11.612
Pietje Juliette Korndyke Queen 155123, Burr Bros.	293.1	3.86	11.309
Miss Johanna Aaggie Fayne 173549, Iowana Farms	296.3	3.80	11.257
Lothian Queen Korndyke Pietertje 156145, Alexander Watt	323.8	3.26	10.556
Idlewild Mollie May 149190, C. Hunsberger	282.9	3.54	10.001
Aaggie Fayne Queen 189886, Iowana Farms	336.4	2.92	9.825

A 111 Lb. Milk Average

Bull born Nov. 23, 1912. Sire: Canary Mercedes Pietertje Hartog 6th, No. 78123. Sire's dam: Royalton De Kol Violet, No. 86460. Milk, 1 da. 119 lb.; 30 da. 3000 lb.; 1 yr. 25561 lb. private record. See picture H. F. W., Feb. 28, 1914. ¾ sister of Royalton De Kol Fern No. 94341, milk 1 da. 116.5 lb.; butter, 7 da. 34.6 lb. A. R. O. Dam of bull advertised Reed De Kol, No. 73957, butter, 7 da. 25.7; milk 7 da. 681.3; milk 1 da. 103.1 lb. after giving birth to twin calves under unfavorable conditions. She is granddaughter of De Kol 2d's Paul De Kol No. 20735 and is now milking 80 lb. a day after being fresh 6 mo. This bull is a good individual, nicely marked. Price, tuberculin tested, F. O. B. cars Delta, Ohio, $250.00.

ADDRESS:

H. A. McQUILLIN : : Delta, Ohio

COL. D. L. PERRY

THE

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In the box or in the ring.
For dates address

COL. J. E. MACK

Ft. Atkinson Wisconsin

HOLSTEIN AUCTIONEER

To insure the success of your sale you need Kelley in the box.

For dates write

Col. B. V. KELLEY. Syracuse, N. Y.

NONPARELL FARM

Herd sire, King Pontiac Lilith Altoana, No. 107196. Service fee $50.

A nicely marked bull calf from this sire and an untested and very promising two-year-old heifer, for $40. Calf guaranteed to please.

FAY & CLOYES
Earlville, N. Y.

$50,000 BREEDING!

For Sale—A Son of King Segis Pontiac Alcartra, from a 26.62-lb. dam. Ready for service. Also his full brother, born April 1, 1914. Both fine individuals. More white than black. For particulars address

S. J. FLEMING
"Maple Knoll Farm" Walden, N. Y.

Meadowbrook Prilly Grietje 178233, John C. Sharpe	259.8	3.74	9.712
Traverse Ryma Duchess 165248, Traverse City State Hosp.	278.7	3.40	9.481
May Korndyke Queen 155121, Burr Bros.	257.1	3.68	9.459
Maple Ridge Carlotta Pontiac 160253, Clayton Sisson	244.6	3.74	9.159
Hartwood Skylark Longfield 177647, H. Stillson	230.4	3.92	9.023
Princess Jacoba Korndyke 155865, Burr Bros.	279.2	3.20	8.939
Spring Valley Netherland Belle 5th 165914, C. Tochterman	258.1	3.21	8.288
Kishie Queen Korndyke De Kol 161772, Charles Vander Schaaf	251.0	3.30	8.281
Creamelle Topsy Korndyke 204115, B. T. Boyson	280.9	2.92	8.214
Hill Pine Lilith Pleione De Kol 187279, E. E. Risley	254.5	3.13	7.963
Hill Pine Gretchen De Kol 156434, E. E. Risely	220.0	3.54	7.866
Spring Valley Queen Piebe 165915, C. Tochterman Jr	218.6	3.17	6.926
Spring Valley Violet Longfield 165917, C. Tochterman Jr.	178.4	3.50	6.245

MALCOLM H. GARDNER, Supt. of Advanced Registry.

CANADIAN OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS

From May 15 to May 31, 1914

Name of Cow and Owner	Milk Lbs.	Fat Lbs.	Butter 80% Fat
Mature Class			
Mature Class.			
Lakeview De Kol Duchess 14719, Lakeview Farm, Bronte, Ont.	489.6	19.62	24.53
Thirty-day record	2924.9	91.31	114.14
Queen Wilhelmina 8913, W. H. Cherry, Garnet, Ont.	640.0	21.73	27.17
Fourteen-day record	1201.1	42.10	52.63
Birdie 2d's Netherland 8257, Colony Farm, Essondale, B. C.	657.0	21.69	27.11
Thirty-day record	2600.5	83.89	104.86
Lansdowne Queen 9375, Brown Bros., Lyn, Ont	516.0	18.99	23.73
Brooklands Sadie 5514, Gordon H. Manhard, Vaudreuil, Que.	528.4	18.85	23.57
Fourteen-day record	1049.5	36.25	45.31
Utica Alice 6452, Martin McDowell, Woodstock, Ont.	538.7	18.57	23.22
Corea Fairmount De Kol 6904, Isaac Holland, Brownsville, Ont.	539.2	17.71	22.14
Pietertje De Kol Plus 10758, A. D. Foster, Bloomfield, Ont.	419.4	17.57	21.96
Clinton Girl 13905, F. Hamilton, St. Catharines, Ont.,	417.7	17.23	21.53
Pauline Emery De Kol 13112, G. S. Gooderham, Bedford Park, Ont.	418.6	15.46	19.32
Madam Posch Pauline 10291, Colony Farm, Essondale, B. C.			
Thirty-day record	3062.6	98.13	122.66
Ninety-day record	9541.8	312.13	390.16
Senior Four-year-old Class.			
Oakvale Elsie Johanna 18027, Dr. L. deL. Harwood, Vaudreuil, Que.	643.8	23.33	29.17
Canary Violetta Mechthilde 14705, J. M. Steves, Steveston, B. C.	609.0	20.24	25.30
Thirty-day record	2621.2	82.39	102.96
Anniebelle Colantha 14726, A. E. Hulet, Norwich, Ont.	404.9	16.56	20.71
Junior Four-year-old Class.			
Emma Pauline De Kol 16033, Lakeview Farm, Bronte, Ont.	567.6	21.33	26.66
Thirty-day record	2553.5	85.06	106.33
Pontiac Alice 15011, Martin McDowell, Woodstock, Ont.	471.7	17.38	21.73
Victoria Pansy Posch 16514, F. Hamilton, St. Catherines, Ont.	323.6	12.96	16.20
Senior Three-year-old Class.			
Lakeview De Kol Duchess 14719, Lakeview Farm, Bronte, Ont	489.6	19.62	24.53
Netherland Faforit 14766, A. E. Hulet, Norwich, Ont.	467.4	19.02	23.78
Lottie Canary 2d 17311, J. M. Steves, Steveston, B. C.	492.8	17.54	21.92
Ina Woodcrest Pietje 26259, Dr. L. deL. Harwood, Vaudreuil, Que.	495.9	15.49	19.37
Coral De Kol 3d 17244, G. S. Gooderham, Bedford Park, Ont.	367.9	14.23	17.79
Fourteen-day record	738.1	27.91	34.89
Junior Three-year-old Class.			
Belle Abbekerk 19562, H. Claire, Norwich, Ont.	393.9	16.87	21.09
Cora Echo Korndyke 24281, E. A. Lloyd, Stouffville, Ont.	343.1	14.89	18.62
Segis Keyes Walker 19559, Benj. R. Leavens, Bloomfield, Ont.	503.7	13.27	16.59
Centre View Daisy Segis 18143, A. E. Hulet, Norwich, Ont.	373.2	12.87	16.09
Sunnydale Queen 2d 17619, A. D. Foster, Bloomfield, Ont.	426.4	12.09	15.12
Centre View Jewel Cornucopia 18144, A. E. Hulet, Norwich, Ont	341.8	10.93	13.66
Senior Two-year-old Class.			
Princess Segis Walker 18093, Ed. B. Purtelle, Bloomfield, Ont.	581.3	16.36	20.46
Abbekerk Jewel 20284, W. G. Bailey, Paris, Ont.	430.8	16.24	20.30
Bedford Gem 2d 17251, G. S. Gooderham, Bedford Park, Ont.	382.5	15.83	19.79
Fourteen-day record	754.6	31.22	39.03
Oakhurst Butter Girl 3d 25328, W. C. Prouse, Tillsonburg, Ont.	317.2	14.67	18.34
Lillian Hengerveld Burke 18864, J. M. Branscombe, Bloomfield, Ont.	378.3	14.15	17.69
Pontiac Segis Prescott 19560, Benj. R. Leavens, Bloomfield, Ont.	457.5	13.83	17.29
Woodcrest Pietje Friesland 25559, Donat Raymond, Montreal, Que.	478.1	13.83	17.29
Keyes Segis Walker Pietertje 2d 20718, Ed. B. Purtelle, Bloom- Ont.	492.4	13.42	16.78
Sara Jewel Hengerveld 2d C. 20928, W. W. Brown, Lyn, Ont.	306.6	11.65	14.56
Trixie De Kol Violet 2d, 20321, Isaac Holland, Brownsville, Ont.	316.2	11.34	14.17
Pauline Ormsby 23142, Martin McDowell, Woodstock, Ont.	350.7	11.15	13.94
Mary Dorliska 18820, David Caughell, St. Thomas, Ont.	252.4	9.05	11.31
Junior Two-year-old Class.			
Pietje Inka Pietertje 22881, W. W. Brown, Lyn, Ont.	350.2	14.67	18.33
Fifteen-day record	750.0	29.79	37.23
Susie Dorliska 24016, David Coughell, St. Thomas, Ont.	326.1	14.41	18.02
Lakeview Dutchland Queen 21115, Lakeview Farm, Bronte, Ont.	446.2	13.87	17.33
Lyndenwood Queen 23501, W. J. Bailey, Nober, Ont.	276.1	12.01	15.01
Keyes Segis Walker Pietertje 2d 20718, E. B. Purtelle, Blolom-field, Ont.	323.3	11.75	14.69
Lakeview Netherland 21110, Lakeview Farm, Bronte, Ont.	325.0	11.39	14.24
Molly Mercedes 24020, David Caughell, Woodstock, Ont.	368.4	11.20	14.01
Clara Houwtje Wayne 24242, David Caughell, Woodstock, Ont.	367.3	10.76	13.43
Dorliska Wayne 24018, David Caughell, Woodstock, Ont.	291.0	10.24	12.80
Augusta of Lulu 2d, 21938, J. M. Steves, Steveston, B. C.	352.2	10.11	12.63
Mercedes Pontiac De Kol 21440, Isaac Bateman, Innisfail, Alta.	267.4	9.82	12.28
Molly Teake Mercena 23611, Isaac Holland, Brownsville, Ont.	267.3	9.15	11.43

During the last half of May the records of 52 cows and heifers were received and accepted for entry in the Record of Merit. The leader in the mature class is Lakeview Daisy with 28.30 lbs. butter in 7 days and 114.14 lbs. in 30 days. Several days during the test this cow exceeded 100 lbs. milk daily. Other good cows in this class are Queen Wilhelmina and Birdie 2d's Netherland, each with over 27 lbs. butter. Madam Posch Pauline makes another thirty-day record of 122.66 lbs. butter, bringing her total for 90 days up to 9541.8 lbs. milk and 390.16 lbs. butter. In the senior four-year-old class Oakvale Elsie Johanna leads with 29.17 lbs. and in the junior class Emma Pauline De Kol stands highest with 26.66 lbs. in seven days and 106.33 in thirty days. Among the senior three-year-olds the best is Lakeview De Kol Duchess with 24.53 lbs. in seven days and 95.67 lbs. in thirty days, while Belle Abbekerk leads the juniors with 21.09 lbs. Princess Segis Walker is first in the senior two-year-olds with 20.46 lbs. closely followed by Abbekerk Jewel with 20.30 lbs. The best junior is Pietje Inka Pietertje with 18.33 lbs.

Look These Horses Over Before Buying Elsewhere

PENNSYLVANIA EXPRESS COMPANY

351-353 E. 34TH ST., NEW YORK CITY

MUST BE SOLD WITHIN THE NEXT THIRTY DAYS

140 YOUNG WORK HORSES AND MARES

in good condition, weighing from 900 to 1600 lbs. These horses have been bought green and within the past two years, and have been used in and around the city. Among them are matched teams suitable for general business, also several pavement-sore mares.

PRICES: Single, $45.00 to $200.00. Teams, $115.00 to $400.00.

Thirty days trial allowed. If not as represented can be returned within trial time. No reasonable offer refused. All horses shipped 400 miles from New York City with blankets, halters and collars.

All cars transfer to the door. One block from Long Island Ferry.

SEE SUPT.

Phone 7481 Murray Hill

4 FEMALES FOR SALE

Three full-aged cows and one two-year-old daughter. Two of the cows average 20 lbs. A. R. O. records.

Also a bull calf,out of an official dam. Calf more white than black, good individual. Sired by a bull whose dam's sire has four daughters over 30 lbs.

BELVOIR FARM Lake Geneva, Wis.

SEMI-OFFICIAL RECORDS
From May 1st to May 31st.

Mature Class.

Birdie 2d's Netherland 8257, Colony Farm Essondale, B. C.	17851	640	800.00
Wadmantje Canary 17736, Colony Farm, Essondale, B. C.	18712	625	781.25
Countess Carrie Mercedes 8120, Samuel Lemon, Lyndon, Ont.	20120	598	747.50
Black Mariah 3650, Geo. S. Van Volkenburg, Hastings, Ont.	18334	571	713.75
Lady Agnes of Annandale 5524, D. C. McDougall, Maxville, Ont.	12906	425	531.25
Orma 8993, W. T. Whale, Goldstone, Ont.	12066	420	525.00
De Kol Nudine Nasica 13480, S. A. Northcott, Taunton, Ont.	11279	408	510.00
Evangeline De Kol 9049, Tig. Wood, Mitchell, Ont.	12997	407	508.75
Tensen De Kol 7475, Wm. Watson, Pine Grove, Ont.	13499	405	506.25
Helena Marjorie 7948, Geo. J. Northcott, Solina, Ont.	13511	400	500.00
Waldorf's Pet 5633, W. A. Durant, Chesterville, Ont.	11393	371	363.75
Mountain Lass 5275, Tig. Wood, Mitchell, Ont.	11063	359	448.75
Pietertje De Kol Cornucopia 10164, Wm. Pollock, Wellman's Corners, Ont.	11935	358	447.50

Four-year-old Class.

Grebegga 2d 11476, Colony Farm, Essondale, B. C.	19386	536	670.00
Lydia Korndyke DeKol 2d 17968, Leuszler & Bollert, Bright, Ont.	13176	464	580.00
Lola Korndyke 11316, S. U. Tinkess, Avonmore, Ont.	13190	459	573.75
Dinah Keyes De Kol 11101, W. R. Shield, Mt. Pleasant, Ont.	13203	452	565.00
Lena Mercena 10668, T. H. Dent, Woodstock, Ont	14456	414	517.5
Lottie Comelein De Kol 10831, E. Terrill, Wooler, Ont.	12163	391	488.75
Lorna Schuiling 10747, Otta Suhring, Sebringville, Ont.	12863	383	478.75
Princess Lizzie 14932, J. Leonard Stanley, Lloydminster, Sask.	12248	369	461.25

Three-year-old-class.

Ruby Nig 14213, Lea & Clark, Victoria, P. E. I.	16555	600	750.00
Posch Mercedes Springbank 2d 15197, T. H. Dent, Woodstock, Ont.	17046	535	668.75
Emma Pauline De Kol 16033, Lakeview Farm, Bronte, Ont.	14391	473	591.25
Mollie Brighton of Steveston 17425, Colony Farm, Essondale, B. C.	15524	463	578.75
Lady Korndyke Pontiac 16593, John Huton, Cardinal, Ont.	13239	411	513.75
Lady Francis De Kol 11653, Tig. Wood, Mitchell, Ont	11813	374	467.50
Duchess of Cobourg Road 13406, S. A. Northcott, Taunton, Ont.	10019	372	465.00
Comelein Linda De Kol 12955, F. Terrill, Wooler, Ont	12449	342	427.50
Dolly Queen Netherland Lizzie 12993, John Johnstone, Little Rideau, Ont.	10949	323	403.75

Two-year-old Class.

Duchess Wayne Calamity 2d 15514, Walburn Rivers, Folden's, Ont.	16714	677	846.25
Lady Pietje Canary's Jewel 17314, J. M. Steves, Steveston, B. C.	17562	664	830.00
Lilith Pauline Calamity Jane 3d 23946, J. M. Steves, Steveston, B. C.	19554	660	825.00
Canary Queen De Kol 2d 17310, J. M. Steves, Steveston, B. C.	11690	444	555.00
Victoria Johanna Burke, 14491, Irvine Hambly, Lethbridge, Atla.	12934	444	555.00
Lottie Canary 2d 17311, J. M. Steves, Steveston, B. C.	11018	436	545.00
Sterling Queen 16166, Watson Hanley, Glenvale, Ont.	13858	416	520.00
Toitilla Posch Johanna 15754, Hospital for Insane, Hamilton, Ont.	11147	412	515.00
Faforit May De Kol 17996, W. E. Watson, Pine Grove, Ont.	9440	389	486.25
Boutsje Posch DeBoer 2d 15382, Samuel Lemon, Lynden, Ont.	11570	389	486.25
Schuiling Maid Girl 17483, Tig. Wood, Mitchell, Ont.	10663	349	436.25
Black Eugenie De Kol 15855, G. H. Wilmot, Eric, Ont.	10613	337	421.25
Jesse Inka Cornucopia's Molly 17394, Wm. Pollock, Wellman's Corners, Ont.	11847	319	398.75
Emma Butter Girl 18681, Nelson Oliver, St. Mary's, Ont.	8738	310	387.50
Luella DeBoer 15383, Samuel Lemon, Lynden, Ont.	8111	266	332.25

During the month of May the records of 45 cows and heifers were received and accepted in the Record of Performance. In the mature class Birdie 2d's Netherland comes first with 800 lbs. butter. Countess Carrie Mercedes adds one more to the lists of Canadian cows giving over 20,000 lbs. milk. As usual the four-year-olds are not overly strong. Grebegga 2d stands highest with 670 lbs. butter. Prince Edward Island comes to the front in the three-year-olds with Ruby Nig, making the good record of 750 lbs. butter. Even stronger are the two-year-olds which are led by Duchess Wayne Calamity 2d with 846.25 lbs. butter, a new Canadian record for that age. Closely following her are the two British Columbia heifers, Lady Pietje Canary's Jewel and Lilith Pauline Calamity Jane 3d, with 830 and 825 lbs. butter respectively.

W. A. CLEMONS, Secretary.

Are You Looking for a Prize Winner?

King Segis Johanna Grahamholm No. 93789.

Born July 9, 1911. Weight at 2 years 10 months, 1900 lbs.

He was Second Prize Winner at Minnesota State Fair, 1913, being beaten only by the bull that won First at the National Dairy Show.

This bull is as straight as a line and a beautiful individual. His cut appeared in this ad. last week—look it up.

SIRE: Sir Winana Beets Segis, who is proving himself one of the best sons of King Segis. Among his A. R. O. daughters are two-yr-olds with records of 23.93 lbs., 19.14 lbs., 18 40 lbs., and he now has a three-year-old daughter in test with 21.72 lbs. to her credit.

DAM: Netherland Johanna Maid. She has twice done excellent work in official test, her latest record being 20.84 lbs. butter in 7 days. Her sire is by a brother to the sire of King Segis.

For further information address.

GRAHAMHOLM HERD

W. J. BOYNTON, Manager ROCHESTER, MINN.

BELLEVIEW FARM

Breeders of large, typical Holstein-Friesians. Choice bulls; tuberculin tested; backed by high average records.

E. B. WATROUS Troy Center, Wis.

Alfalfa Hay

FOR A. R. O. TESTS

PIONEER FARMS

E. K. Munro Camillus, N. Y.

WELL DRILLING Machines

Over 70 sizes and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or horse powers. Strong, simple and durable. Any mechanic can operate them easily. Send for catalog.

WILLIAMS BROS., Ithaca, N. Y.

KANSAS CITY FARM

Kansas City, U. S. A. and Springfield, Ill.
Breeders of K. C. Holsteins.
Stock for Sale.
See or write.
T. J. DAUGHENBAUGH
Springfield, Ill.

$200—EXPRESS PAID—$200

200 miles or less. Bull born April 16. 19 lb. 3-yr. dam, fine calf. Extra well marked, 7 dams in 4 generations have records averaging 26.11 lb. Popular blood lines. Photo and pedigree. Write

A. HURSH Orville, Ohio

FOR SALE

Two heifers from A. R. O. dams. Their sire's nearest dams average 29.34 lbs. butter in 7 days. They are bred to a son of Pontiac Korndyke. For price and pedigrees, inquire of

L. J. SWEEZEY
Marion Wayne Co., N. Y.

BULL BY 31-LB. SIRE

Bull born Oct. 12, 1913. 75 per cent white. A show bull sired by Briar Abbekerk De Kol whose dam is Briar Daisy 31.09 in 7 days. Average fat 5.09 per cent. Dam of calf an untested granddaughter of Duchess Ormsby Butter King, 43 A. R. O. daughters.

C. E. WARD PALMYRA, WIS.

PROVEN SIRE FOR SALE

Plum Pietertje Prilly No. 63775, with 14 A. R. O. daughters and over 50 daughters yet to test. 5 years old. Weighs about 2000. Three-fifths white. Good server. Get better than 75 per cent heifers. Price and pedigree on application.

TIOGA FARMS Tioga Center, N. Y.

CREAMELLE VALE BLOOD FOR SALE

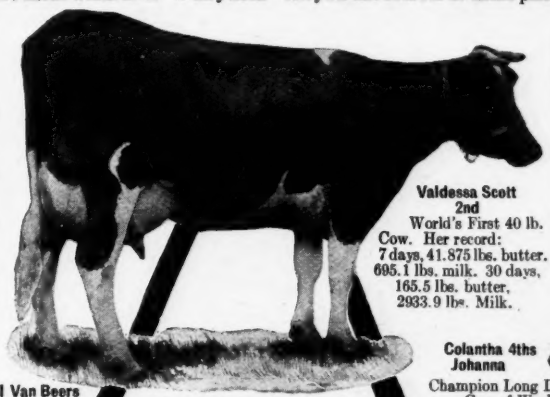
A bull calf born Dec. 6th whose sire is by Dutchland Sir Pietertje Hengerveld and a daughter of Creamelle Vale, the World's Record cow for yearly milk production. His dam is by the 30-lb. bull, Elzevere Sir Canary Barnum De Kol. Send for pedigree if you want this prize.

BEACH & WIRT
Battle Creek Michigan

STARS OF THE MILKY WAY

Hail to the STARS OF THE MILKY WAY. Five wonder cows of the dairy world. Read the marvelous record breaking achievements of these five great "Queens of Dairydom." Get the facts of their wonderful performances in the letters of their fortunate owners. Let these wizards of "Dairydom" tell you the secrets of these phenomenal achievements.

BROOKLINE FARMS
Home of Johanna De Kol Van Beers
Hampshire, Ill., Dec. 8th, 1913
Quaker Oats Co., Chicago, Ill.
Gentlemen—Replying to yours of Dec. 1st., regarding **Schumacher Stock Feed,** will say as a feed for dairy cows or young cattle I know of no feed equal to **Schumacher.** It certainly contains all the ingredients that are necessary to put the finish and gloss on an animal and more than that, the results obtained thru the pail makes it the cheapest feed that I have ever fed. To any one feeding cattle for show, I would especially recommend **Schumacher.**
Yours truly, T. E. Getzelman.



Valdessa Scott 2nd
World's First 40 lb. Cow. Her record: 7 days, 41.875 lbs. butter. 695.1 lbs. milk. 30 days, 165.5 lbs. butter, 2933.9 lbs. Milk.

Here's What Her Owner Says
FINDERNE STOCK FARM
Finderne, N. J.
The Quaker Oats Co.,
Chicago, Ill.
Gentlemen:—During the past two or three years we have been feeding your **Schumacher Feed** and have secured splendid results. **Schumacher** was incorporated in the ration of Valdessa Scott 2nd during her wonderful result producing test. Yours truly,
B. MEYER, Owner.

Johanna De Kol Van Beers
World's 2nd 40 Pound Cow
Her record: 7 days 663 lbs. milk 40.32 lbs. butter.

Colantha 4ths Johanna
Champion Long Distance Cow of World.
Her official record 365 days is 27432.5 pounds milk.

LISTEN!

Since the owners of these "record breaking cows" and the following other leading dairymen of the country find that it pays to use **Schumacher Feed,** you too will profit by making this remarkable feed the base of your ration: E. H. Dollar, T. H. Russell, Cole Bros., F. P. Knowles, Woodlawn Farms, F. J. Bristol & Sons Co., R. E. Chapin & Son. These are only a few of the many that are using **Schumacher Feed,** but those mentioned will give you an idea of the high character of feeders who are using **Schumacher Feed.**

Read What Former Owner of Johanna De Kol Van Beers says:
James M. Anderson
Breeder of Thoroughbred Holstein-Freisian Cattle
Crumhorn Stock Farms
Pompton Plains, New Jersey,
March 28, 1913
The Quaker Oats Company,
Chicago, Ill.
Gentlemen:—We have been using **Schumacher Stock Feed** for several years. It will no doubt interest you to know that "**Schumacher**" formed part of the ration fed **Johanna De Kol Van Beers** during her recent test when she broke the world's record for 60 days, 90 days and 100 days.
The variety of products in **Schumacher Stock Feed** makes it most valuable in the dairy ration.
Very truly yours,
(Signed) **Frank Raycraft,**
Manager.

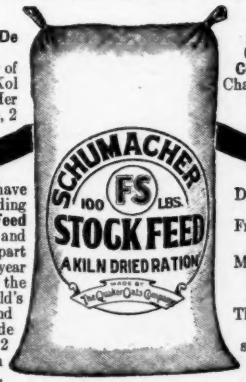
Schumacher Feed

Is the feed of world's champions because it is the feed that makes world's champions. It supplies the most important part of the ration; namely, the maintenance part. It keeps cows in the pink of condition, so that they can produce steadily their maximum results. It counteracts the ill effects of the high protein feeds. Therefore, helps you to secure the greatest good from the high protein feeds. As this feed is composed of the best feeding parts of corn, oats, barley and wheat products, it is composed of the variety of grains most desirable for the feeding of cattle. The feed is relished keenly by the animal. They thrive on it, improve in condition and increase their milk yield. The feed is scientifically blended, finely ground and thoroughly kiln dried.

Try This Feeding Plan Now Mix three parts of **Schumacher** with one part any good high protein concentrate you are now feeding, such as cotton seed meal, gluten, distillers' grains, oil meal, Blue Ribbon Dairy Feed or other high protein grain mixtures and note the improved results.

Springdale Stock Farm—
Home of Colantha 4th's Johanna
The Quaker Oats Co.
Chicago, Ill.
Gentlemen:—Replying to yours of the 3rd, we are making **Schumacher Feed** one-third part of our herd ration and we are getting results. Several of our cows are milking up to over 75 lbs. per day with this part of our grain ration.
Yours very truly,
W. J. GILLETT,
Rosendale, Wis.

Cedar Lawn De Kol Johanna
Half Sister of Johanna De Kol Van Beers. Her record at 2 years, 2 months, 25.8 lbs. butter in 7 days.



Dutchland Changeling Colantha Lad
Champion Junior 3 year old.
Milk, 21239 lbs. 13 oz.
Butter, 946 lbs.

"We have been feeding **Schumacher Feed** for a number of years and ordered another car for part of our grain ration this year and like it very much. We raised the cow Johanna De Kol Van Beers (the world's second 40-lb. cow), that was sold for $7000.00 and also the heifer Cedar Lawn De Kol Johanna that made 25.8 lbs. butter in 7 days, 707.93 lbs. in 365 days, at 2 years, 2 months of age. Hoping that you can always supply us with feed,"
Yours truly, C. A. SCHROEDER & SON,
per H. F. Schroeder, West Bend, Wis.

Dutchland Farms
Fred F. Field Holstein Co., Brockton, Mass.
Montello Station—309 Battles Street.
Brockton, Mass., March 15, 1913.
The Quaker Oats Company, Chicago, Ill.
Gentlemen:—Your **Schumacher Stock Feed** has scored another big success as our new world's champion Junior three year old heifer Dutchland Changeling Colantha Lad is being fed this food as part of her grain ration. Her stable mates, Dutchland Colantha Vale and Dutchland Colantha Mona are also being fed same ration and will have world's records in the near future.
Dutchland Changeling Colantha Lad has just completed ten months of her year's test making a record of 846.6 pounds of butter fat and has broken the former world's record of 639. lbs. of butter fat for twelve months production.
Dutchland Changeling Colantha Lad and her stable mates, Dutchland Colantha Vale and Dutchland Colantha Mona are daughters of Colantha Johanna Lad, who is a son of Colantha 4th Johanna, who until very recent had held the world's record for both the butter and milk production. Several other daughters of Colantha Johanna Lad will be heard from in the near future.
Yours truly,
Fred F. Field Holstein Co.

Write us to-day if your dealer does not handle Schumacher Feed

The Quaker Oats Company Chicago, U. S. A.

THE ONLY CONSISTENT WINNERS

The only consistent winners of championships from the time of our first official test have been, the De Kols, the Korndykes and the Hengervelds. Animals from other families have won championships at different times, but no other families have shown the transmitting ability to produce champions, year after year and generation after generation. You know where this blood comes from.

The foundation cows i. e., De Kol 2d, Belle Korndyke and Netherland Hengerveld together with Helena Burke were our famous big four of twenty years ago.

The present World's champion 44 lb. cow is a great granddaughter of Belle Korndyke, a G. G. granddaughter of De Kol 2d and a G. G. G. granddaughter of Netherland Hengerveld. She gets De Kol 2d and Netherland Hengerveld blood several times from both sides of her pedigree.

In the pedigrees of most of our greatest cows you will find at least two of this famous big four.

Now our herd at the present time consists principally of the same blood. Of our three service bulls, Korndyke Butter Boy carries more of the blood of De Kol 2d, Belle Korndyke and Netherland Hengerveld than any other sire, except his full brother, Sir Korndyke Manor De Kol. Albina Butter Boy derives most of his blood from these same three greatest foundation cows and you will find De Kol 2d, Belle Korndyke or Netherland Hengerveld a dozen times in the pedigree of SPRING FARM KING PONTIAC 6th and in almost every instance he gets their blood through their best record and best transmitting descendants.

Now, if you want a herd bull, a few females or a foundation herd, we are prepared to supply it. We have been right here doing it for years and the results are shown in the best herds of America today.

WE WANT TO DO BUSINESS WITH YOU.

HENRY STEVENS & SON

Brookside Stock Farm

Lacona, N. Y.

(Established 1876) **(175 Head)**